

#### SEQUENCE LISTING

#### (1) GENERAL INFORMATION:

(i) APPLICANT: FENG, YIQING
BAUM, CHARLES M
CAPARON, MAIRE H
ZURFLUH, LINDA L
KLEIN, BARBARA K
MCWHERTER, CHARLES A
STATEN, NICHOLAS R
SUMMERS, NEENA L
BAUER, S C

BAUER, S C LEE, STEPHEN C

- (ii) TITLE OF INVENTION: MULTI-FUNCTIONAL HEMATOPOIETIC
  FUSION PROTEINS BETWEEN SEQUENCE REARRANGED
  G-CSF RECEPTOR AGONISTS AND OTHER
  HEMATOPOIETIC FACTORS
- (iii) NUMBER OF SEQUENCES: 313
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: CAROL M. NIELSEN, GARDERE WYNNE SEWELL, LLP
  - (B) STREET: 1000 LOUISIANA, SUITE 3400
  - (C) CITY: HOUSTON
  - (D) STATE: TEXAS
  - (E) COUNTRY: USA
  - (F) ZIP: 77002-5007
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Diskette
  - (B) COMPUTER: IBM PC compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER: US/10/695,584
  - (B) FILING DATE: 27-Oct-2003
  - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: US 09/510,238
  - (B) FILING DATE: 22-FEB-2002
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: US 08/835,162
  - (B) FILING DATE: 04-APR-1997
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: WO PCT/US 96/15774
  - (B) FILING DATE: 06-OCT-1996
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: US 60/004,834
  - (B) FILING DATE: 05-OCT-1995

## (viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: NIELSEN, CAROL M
- (B) REGISTRATION NUMBER: 37,676
- (C) REFERENCE/DOCKET NUMBER: 2910/3

# (ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: 713-276-5383
- (B) TELEFAX: 713-276-5383

# (2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 174 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: protein
- (ix) FEATURE:
  - (A) NAME/KEY: Modified-site
  - (B) LOCATION: 1
- (D) OTHER INFORMATION: /note= "Xaa at position 1 is Thr, Ser, Arg, Tyr or Gly;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 2
- - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 3
- (D) OTHER INFORMATION: /note= "Xaa at position 3 is Leu, Arg, Tyr or Ser;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 13
- (D) OTHER INFORMATION: /note= "Xaa at position 13 is Phe, Ser, His, Thr or Pro;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 16
- (D) OTHER INFORMATION: /note = "Xaa at position 16 is Lys, Pro, Ser, thr or His;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 17
- (D) OTHER INFORMATION: /note= "Xaa at position 17 is Cys, Ser, Gly, Ala, Ile, Tyr or Arg;"

- (ix) FEATURE:
  - (A) NAME/KEY: Modified-site
  - (B) LOCATION: 18
- (D) OTHER INFORMATION: /note= "Xaa at position 18 is Leu, Thr, Pro, His, Ile or Cys;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 22
- (D) OTHER INFORMATION: /note= "Xaa at position 22 is Arg, Tyr, Ser, Thr or Ala;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 24
- (D) OTHER INFORMATION: /note= "Xaa at position 24 is Ile, Pro, Tyr or Leu;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 27
- (D) OTHER INFORMATION: /note = "Xaa at position 27 is Asp, or Gly;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 30
- (D) OTHER INFORMATION: /note= "Xaa at position 30 is Ala, Ile, Leu or Gly;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 34
- (D) OTHER INFORMATION: /note= "Xaa at position 34 is Lys or Ser;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 36
- (D) OTHER INFORMATION: /note= "Xaa at position 36 is Cys or Ser;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 42
- (D) OTHER INFORMATION: /note= "Xaa at position 42 is Cys or Ser;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 43
- (D) OTHER INFORMATION: /note= "Xaa at position 43 is His, Thr, Gly, Val, Lys, Trp, Ala, Arg, Cys, or Leu;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site

- (B) LOCATION: 44
- (D) OTHER INFORMATION: /note= "Xaa at position 44 is Pro, Gly, Arg, Asp, Val, Ala, His, Trp, Gln, or Thr;"

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 46
- (D) OTHER INFORMATION: /note = "Xaa at position 46 is Glu, Arg, Phe, Arg, Ile or Ala;"

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 47
- (D) OTHER INFORMATION: /note= "Xaa at position 47 is Leu or Thr;"

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 49
- (D) OTHER INFORMATION: /note = "Xaa at position 49 is Leu, Phe, Arg or Ser;"

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 50
- (D) OTHER INFORMATION: /note= "Xaa at position 50 is Leu, Ile, His, Pro or Tyr;"

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 54
- (D) OTHER INFORMATION: /note = "Xaa at position 54 is Leu or His;"

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 64
- (D) OTHER INFORMATION: /note= "Xaa at position 64 is Cys or Ser;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 67
- (D) OTHER INFORMATION: /note = "Xaa at position 67 is Gln, Lys, Leu or Cys;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 70
- (D) OTHER INFORMATION: /note= "Xaa at position 70 is Gln, Pro, Leu, Arg or Ser;"

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 74
- (D) OTHER INFORMATION: /note = "Xaa at position 74 is Cys or Ser;"

- (ix) FEATURE:
  - (A) NAME/KEY: Modified-site
  - (B) LOCATION: 104
- (D) OTHER INFORMATION: /note = "Xaa at position 104 is Asp, Gly or Val;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 108
- (D) OTHER INFORMATION: /note= "Xaa at position 108 is Leu, Ala, Val, Arg, Trp, Gln or Gly;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 115
- (D) OTHER INFORMATION: /note= "Xaa at position 115 is Thr, His, Leu or Ala;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 123
- (D) OTHER INFORMATION: /note= "Xaa at position 123 is Glu, Arg, Phe or Thr"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 144
- (D) OTHER INFORMATION: /note= "Xaa at position 144 is Phe, His, Arg, Pro, Leu, Gln or Glu;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 146
- (D) OTHER INFORMATION: /note= "Xaa at position 146 is Arg or Gln;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 147
- (D) OTHER INFORMATION: /note= "Xaa at position 147 is Arg or Gln;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 156
- (D) OTHER INFORMATION: /note = "Xaa at position 156 is His, Gly or Ser;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 159
- (D) OTHER INFORMATION: /note= "Xaa at position 159 is Ser, Arg, Thr, Tyr, Val or Gly;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site

- (B) LOCATION: 162
- (D) OTHER INFORMATION: /note= "Xaa at position 162 is Glu, Leu, Gly or Trp;"

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 163
- (D) OTHER INFORMATION: /note= "Xaa at position 163 is Val, Gly, Arg or Ala;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 169
- (D) OTHER INFORMATION: /note= "Xaa at position 169 is Arg, Ser, Leu, Arg or Cys;"

#### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 170
- (D) OTHER INFORMATION: /note = "Xaa at position 170 is His, Arg or Ser;"

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

- Xaa Xaa Xaa Gly Pro Ala Ser Ser Leu Pro Gln Ser Xaa Leu Leu Xaa 1 5 10 15
- Xaa Xaa Glu Gln Val Xaa Lys Xaa Gln Gly Xaa Gly Ala Xaa Leu Gln 20 25 30
- Glu Xaa Leu Xaa Ala Thr Tyr Lys Leu Xaa Xaa Glu Xaa Xaa Val 35 40 45
- Xaa Xaa Gly His Ser Xaa Gly Ile Pro Trp Ala Pro Leu Ser Ser Xaa 50 60
- Pro Ser Xaa Ala Leu Xaa Leu Ala Gly Xaa Leu Ser Gln Leu His Ser 65 70 75 80
- Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser 85 90 95
- Pro Glu Leu Gly Pro Thr Leu Xaa Thr Leu Gln Xaa Asp Val Ala Asp 100 105 110
- Phe Ala Xaa Thr Ile Trp Gln Gln Met Glu Xaa Leu Gly Met Ala Pro 115 120 125
- Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Xaa 130 135 140
- Gln Xaa Xaa Ala Gly Gly Val Leu Val Ala Ser Xaa Leu Gln Xaa Phe 145 150 155 160
- Leu Xaa Xaa Ser Tyr Arg Val Leu Xaa Xaa Leu Ala Gln Pro 165 170

## (2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 133 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (ix) FEATURE:
  - (A) NAME/KEY: Modified-site
  - (B) LOCATION: 17
- (D) OTHER INFORMATION: /note= "Xaa at position 17 is Ser, Lys, Gly, Asp, Met, Gln, or Arg;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 18
- (D) OTHER INFORMATION: /note= "Xaa at position 18 is Asn, His, Leu, Ile, Phe, Arg, or Gln;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 19
- (D) OTHER INFORMATION: /note= "Xaa at position 19 is Met, Phe, Ile, Arg, Gly, Ala, or Cys;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 20
- (D) OTHER INFORMATION: /note= "Xaa at position 20 is Ile, Cys, Gln, Glu, Arg, Pro, or Ala;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 21
- (D) OTHER INFORMATION: /note= "Xaa at position 21 is Asp, Phe, Lys, Arg, Ala, Gly, Glu, Gln, Asn, Thr, Ser or Val;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 22
- (D) OTHER INFORMATION: /note= "Xaa at position 22 is Glu, Trp, Pro, Ser, Ala, His, Asp, Asn, Gln, Leu, Val or Gly;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 23
- (D) OTHER INFORMATION: /note= "Xaa at position 23 is Ile, Val, Ala, Gly, Trp, Lys, Phe, Leu, Ser, or Arg;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 24

(D) OTHER INFORMATION: /note= "Xaa at position 24 is Ile, Gly, Val, Arg, Ser, Phe, Leu;"

#### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 25
- (D) OTHER INFORMATION: /note= "Xaa at position 25 is Thr, His, Gly, Gln, Arg, Pro, or Ala;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 26
- (D) OTHER INFORMATION: /note= "Xaa at position 26 is His, Thr, Phe, Gly, Arg, Ala, Trp;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 27
- (D) OTHER INFORMATION: /note= "Xaa at position 27 is Leu, Gly, Arg, Thr, Ser, or Ala;"

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 28
- (D) OTHER INFORMATION: /note= "Xaa at position 28 is Lys, Arg, Leu, Gln, Gly, Pro, Val or Trp;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 29
- (D) OTHER INFORMATION: /note= "Xaa at position 29 is Gln, Asn, Leu, Pro, Arg, or Val;"

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 30
- (D) OTHER INFORMATION: /note= "Xaa at position 30 is Pro, His, Thr, Gly, Asp, Gln, Ser, Leu, or L..."

#### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 31
- (D) OTHER INFORMATION: /note= "Xaa at position 31 is Pro, Asp, Gly, Ala, Arg, Leu, or Gln;"

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 32
- (D) OTHER INFORMATION: /note= "Xaa at position 32 is Leu, Val, Arg, Gln, Asn, Gly, Ala, or Glu;"

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 33
- (D) OTHER INFORMATION: /note= "Xaa at position 33 is Pro, Leu, Gln, Ala, Thr, or Glu;"

- (ix) FEATURE:
  - (A) NAME/KEY: Modified-site
  - (B) LOCATION: 34
- (D) OTHER INFORMATION: /note= "Xaa at position 34 is Leu, Val, Gly, Ser, Lys, Glu, Gln, Thr, Arg, Ala, Phe, Ile or Met;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 35
- (D) OTHER INFORMATION: /note= "Xaa at position 35 is Leu, Ala, Gly, Asn, Pro, Gln, or Val;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 36
- (D) OTHER INFORMATION: /note= "Xaa at position 36 is Asp, Leu, or Val;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 37
- (D) OTHER INFORMATION: /note= "Xaa at position 37 is Phe, Ser, Pro, Trp, or Ile;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 38
- (D) OTHER INFORMATION: /note = "Xaa at position 38 is Asn, or Ala;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 40
- (D) OTHER INFORMATION: /note= "Xaa at position 40 is Leu, Trp, or Arg;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 41
- (D) OTHER INFORMATION: /note= "Xaa at position 41 is Asn, Cys, Arg, Leu, His, Met, or pro;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 42
- (D) OTHER INFORMATION: /note= "Xaa at position 42 is Gly, Asp, Ser, Cys, Asn, Lys, Thr, Leu, Val, Glu, Phe, Tyr, Ile, Met or Ala;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 43
- (D) OTHER INFORMATION: /note= "Xaa at position 43 is Glu, Asn, Tyr, Leu, Phe, Asp, Ala, Cys, Gln, Arg, Thr, Gly, or Ser;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site

- (B) LOCATION: 44
- (D) OTHER INFORMATION: /note= "Xaa at position 44 is Asp, Ser, Leu, Arg, Lys, Thr, Met, Trp, Glu, Asn, Gln, Ala or Pro;"

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 45
- (D) OTHER INFORMATION: /note= "Xaa at position 45 is Gln, Pro, Phe, Val, Met, Leu, Thr, Lys, Trp, Asp, Asn, Arg, Ser, Ala, Ile, Glu or His;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 46
- (D) OTHER INFORMATION: /note= "Xaa at position 46 is Asp, Phe, Ser, Thr, Cys, Glu, Asn, Gln, Lys, His, Ala, Tyr, Ile, Val or Gly;"

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 47
- (D) OTHER INFORMATION: /note= "Xaa at position 47 is Ile, Gly, Val, Ser, Arg, Pro, or His;"

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 48
- (D) OTHER INFORMATION: /note= "Xaa at position 48 is Leu, Ser, Cys, Arg, Ile, His, Phe, Glu, Lys, Thr, Ala, Met, Val or Asn;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 49
- (D) OTHER INFORMATION: /note= "Xaa at position 49 is Met, Arg, Ala, Gly, Pro, Asn, His, or Asp;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 50
- (D) OTHER INFORMATION: /note= "Xaa at position 50 is Glu, Leu, Thr, Asp, Tyr, Lys, Asn, Ser, Ala, Ile, Val, His, Phe, Met or Gln;"

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 51
- (D) OTHER INFORMATION: /note= "Xaa at position 51 is Asn, Arg, Met, Pro, Ser, Thr, or his;"

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 52
- (D) OTHER INFORMATION: /note= "Xaa at position 52 is Asn, His, Arg, Leu, Gly, Ser, or Thr;"

- (ix) FEATURE:
  - (A) NAME/KEY: Modified-site
  - (B) LOCATION: 53
- (D) OTHER INFORMATION: /note= "Xaa at position 53 is Leu, Thr, Ala, Gly, Glu, Pro, Lys, Ser, or M..."
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 54
- (D) OTHER INFORMATION: /note= "Xaa at position 54 is Arg, Asp, Ile, Ser, Val, Thr, Gln, Asn, Lys, His, Ala or Leu;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 55
- (D) OTHER INFORMATION: /note= "Xaa at position 55 is Arg, Thr, Val, Ser, Leu, or Gly;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 56
- (D) OTHER INFORMATION: /note= "Xaa at position 56 is Pro, Gly, Cys, Ser, Gln, Glu, Arg, His, Thr, Ala, Tyr, Phe, Leu, Val or Lys;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 57
- - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 58
- (D) OTHER INFORMATION: /note= "Xaa at position 58 is Leu, Ser, Asp, Arg, Gln, Val, or Cys;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 59
- (D) OTHER INFORMATION: /note= "Xaa at position 59 is Glu, Tyr, His, Leu, Pro, or Arg;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 60
- (D) OTHER INFORMATION: /note= "Xaa at position 60 is Ala, Ser, Pro, Tyr, Asn, or Thr;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 61
- (D) OTHER INFORMATION: /note= "Xaa at position 61 is Phe, Asn, Glu, Pro, Lys, Arg, or Ser;"

- (ix) FEATURE:
  - (A) NAME/KEY: Modified-site
  - (B) LOCATION: 62
- (D) OTHER INFORMATION: /note= "Xaa at position 62 is Asn, His, Val, Arg, Pro, Thr, Asp, or Ile;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 63
- (D) OTHER INFORMATION: /note= "Xaa at position 63 is Arg, Tyr, Trp, Lys, Ser, His, Pro, or Val;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 64
- (D) OTHER INFORMATION: /note= "Xaa at position 64 is Ala, Asn, Pro, Ser, or Lys;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 65
- (D) OTHER INFORMATION: /note= "Xaa at position 65 is Val, Thr, Pro, His, Leu, Phe, or Ser;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 66
- (D) OTHER INFORMATION: /note= "Xaa at position 66 is Lys, Ile, Arg, Val, Asn, Glu, or Ser;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 67
- (D) OTHER INFORMATION: /note= "Xaa at postion 67 is Ser, Ala, Phe, Val, Gly, Asn, Ile, Pro, or His;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 68
- (D) OTHER INFORMATION: /note= "Xaa at position 68 is Leu, Val, Trp, Ser, Ile, Phe, Thr, or His;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 69
- (D) OTHER INFORMATION: /note= "Xaa at position 69 is Gln, Ala, Pro, Thr, Glu, Arg, Trp, Gly, or L..."
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 70
- (D) OTHER INFORMATION: /note= "Xaa at position 70 is Asn, Leu, Val, Trp, pro, or Ala;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 71

(D) OTHER INFORMATION: /note= "Xaa at position 71 is Ala, Met, Leu, Pro, Arg, Glu, Thr, Gln, Trp, or Asn;"

#### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 72
- (D) OTHER INFORMATION: /note= "Xaa at position 72 is Ser, Glu, Met, Ala, His, Asn, Arg, or Asp;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 73
- (D) OTHER INFORMATION: /note= "Xaa at position 73 is Ala, Glu, Asp, Leu, Ser, Gly, Thr, or Arg;"

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 74
- (D) OTHER INFORMATION: /note= "Xaa at position 74 is Ile, Met, Thr, Pro, Arg, Gly, Ala;"

#### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 75
- (D) OTHER INFORMATION: /note= "Xaa at position 75 is Glu, Lys, Gly, Asp, Pro, Trp, Arg, Ser, Gln, or Leu;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 76
- (D) OTHER INFORMATION: /note= "Xaa at position 76 is Ser, Val, Ala, Asn, Trp, Glu, Pro, Gly, or A..."

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 77
- (D) OTHER INFORMATION: /note= "Xaa at position 77 is Ile, Ser, Arg, Thr, or Leu;"

#### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 78
- (D) OTHER INFORMATION: /note= "Xaa at position 78 is Leu, Ala, Ser, Glu, Phe, Gly, or Arg;"

## (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 79
- (D) OTHER INFORMATION: /note= "Xaa at position 79 is Lys, Thr, Asn, Met, Arg, Ile, Gly, or Asp;"

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 80
- (D) OTHER INFORMATION: /note= "Xaa position at 80 is Asn, Trp, Val, Gly, Thr, Leu, Glu, or Arg;"

- (ix) FEATURE:
  - (A) NAME/KEY: Modified-site
  - (B) LOCATION: 81
- (D) OTHER INFORMATION: /note= "Xaa at position 81 is Leu, Gln, Gly, Ala, Trp, Arg, Val, or Lys;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 82
- (D) OTHER INFORMATION: /note= "Xaa at position 82 is Leu, Gln, Lys, Trp, Arg, Asp, Glu, Asn, His, Thr, Ser, Ala, Tyr, Phe, Ile, Met or Val;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 83
- (D) OTHER INFORMATION: /note= "Xaa at position 83 is Pro, Ala, Thr, Trp, Arg, or Met;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 84
- (D) OTHER INFORMATION: /note= "Xaa at position 84 is Cys, Glu, Gly, Arg, Met, or Val;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 85
- (D) OTHER INFORMATION: /note = "Xaa at position 85 is Leu, Asn, Val, or Gln;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 86
- (D) OTHER INFORMATION: /note= "Xaa at position 86 is Pro, Cys, Arg, Ala, or Lys;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 87
- (D) OTHER INFORMATION: /note= "Xaa at position 87 is Leu, Ser, Trp, or Gly;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 88
- (D) OTHER INFORMATION: /note = "Xaa at position 88 is Ala, Lys, Arg, Val, or Trp;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 89
- (D) OTHER INFORMATION: /note= "Xaa at position 89 is Thr, Asp, Cys, Leu, Val, Glu, His, Asn, or S..."
  - (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 90
- (D) OTHER INFORMATION: /note= "Xaa at position 90 is Ala, Pro, Ser, Thr, Gly, Asp, Ile, or ,Met;"

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 91
- (D) OTHER INFORMATION: /note= "Xaa at position 91 is Ala, Pro, Ser, Thr, Phe, Leu, Asp, or His;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 92
- (D) OTHER INFORMATION: /note= "Xaa at position 92 is Pro, Phe, Arg, Ser, Lys, His, Ala, Gly, Ile or Leu;"

#### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 93
- (D) OTHER INFORMATION: /note= "Xaa at position 93 is Thr, Asp, Ser, Asn, Pro, Ala, Leu, or Arg;"

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 94
- (D) OTHER INFORMATION: /note= "Xaa at position 94 is Arg, Ile, Ser, Glu, Leu, Val, Gln, Lys, His, Ala, or Pro;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 95
- (D) OTHER INFORMATION: /note= "Xaa at position 95 is His, Gln, Pro, Arg, Val, Leu, Gly, Thr, Asn, Lys, Ser, Ala, Trp, Phe, Ile, or Tyr;"

#### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 96
- (D) OTHER INFORMATION: /note= "Xaa at position 96 is Pro, Lys, Tyr, Gly, Ile, or Thr;"

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 97
- (D) OTHER INFORMATION: /note= "Xaa at position 97 is Ile, Val, Lys, Ala, or Asn;"

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 98
- (D) OTHER INFORMATION: /note= "Xaa at position 98 is His, Ile, Asn, Leu, Asp, Ala, Thr, Glu, Gln, Ser, Phe, Met, Val, Lys, Arg, Tyr, or Pro;"

# (ix) FEATURE:

(A) NAME/KEY: Modified-site

- (B) LOCATION: 99
- (D) OTHER INFORMATION: /note= "Xaa at position 99 is Ile, Leu, Arg, Asp, Val, Pro, Gln, Gly, Ser, Phe, or His;"

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 100
- (D) OTHER INFORMATION: /note= "Xaa at position 100 is Lys, Tyr, Leu, His, Arg, Ile, Ser, Gln, or ..."

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 101
- (D) OTHER INFORMATION: /note= "Xaa at position is Asp, Pro, Met, Lys, His, Thr, Val, Tyr, Glu, Asn, Ser, Ala, Gly, Ile, Leu, or Gln;"

#### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 102
- (D) OTHER INFORMATION: /note= "Xaa at position 102 is Gly, Leu, Glu, Lys, Ser, Tyr, or Pro;"

#### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 103
- (D) OTHER INFORMATION: /note = "Xaa at position 103 is Asp, or Ser;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 104
- (D) OTHER INFORMATION: /note= "Xaa at position 104 is Trp, Val, Cys, Tyr, Thr, Met, Pro, Leu, Gln, Lys, Ala, Phe, or Gly;"

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 105
- (D) OTHER INFORMATION: /note= "Xaa at position 105 is Asn, Pro, Ala, Phe, Ser, Trp, Gln, Tyr, Leu, Lys, Ile, Asp, or His;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 106
- (D) OTHER INFORMATION: /note= "Xaa at position 106 is Glu, Ser, Ala, Lys, Thr, Ile, Gly, or Pro;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 108
- (D) OTHER INFORMATION: /note= "Xaa at position 108 is Arg, Lys, Asp, Leu, Thr, Ile, Gln, His, Ser, Ala or Pro;"

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 109

(D) OTHER INFORMATION: /note= "Xaa at position 109 is Arg, Thr, Pro, Glu, Tyr, Leu, Ser, or Gly;"

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 110
- (D) OTHER INFORMATION: /note= "Xaa at position 110 is Lys, Ala, Asn, Thr, Leu, Arg, Gln, His, Glu, Ser, or Trp;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 111
- (D) OTHER INFORMATION: /note= "Xaa at position 111 is Leu, Ile, Arg, Asp, or Met;"

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 112
- (D) OTHER INFORMATION: /note= "Xaa at position 112 is Thr, Val, Gln, Tyr, Glu, His, Ser, or Phe;"

#### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 113
- (D) OTHER INFORMATION: /note= "Xaa at position 113 is Phe, Ser, Cys, His, Gly, Trp, Tyr, Asp, Lys, Leu, Ile, Val or Asn;"

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 114
- (D) OTHER INFORMATION: /note= "Xaa at position 114 is Tyr, Cys, His, Ser, Trp, Arg, or Leu;"

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 115
- (D) OTHER INFORMATION: /note= "Xaa at position 115 is Leu, Asn, Val, Pro, Arg, Ala, His, Thr, Trp, or Met;"

#### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 116
- (D) OTHER INFORMATION: /note= "Xaa at position 116 is Lys, Leu, Pro, Thr, Met, Asp, Val, Glu, Arg, Trp, Ser, Asn, His, Ala, Tyr, Phe, Gln, or Ile;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 117
- (D) OTHER INFORMATION: /note= "Xaa at position 117 is Thr, Ser, Asn, Ile, Trp, Lys, or Pro;"

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 118
- (D) OTHER INFORMATION: /note= "Xaa at position 118 is Leu, Ser, Pro, Ala, Glu, Cys, Asp, or Tyr;"

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 119
- (D) OTHER INFORMATION: /note= "Xaa at position 119 is Glu, Ser, Lys, Pro, leu, Thr, Tyr, or Arg;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 120
- (D) OTHER INFORMATION: /note= "Xaa at position 120 is Asn, Ala, Pro, Leu, His, Val, or Gln;"

### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 121
- (D) OTHER INFORMATION: /note= "Xaa at position 121 is Ala, Ser, Ile, Asn, Pro, Lys, Asp, or Gly;"

#### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 122
- (D) OTHER INFORMATION: /note= "Xaa at position 122 is Gln, Ser, Met, Trp, Arg, Phe, Pro, His, Ile, Tyr, or Cys;"

# (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 123
- (D) OTHER INFORMATION: /note= "Xaa at position 123 is Ala, Met, Glu, His, Ser, Pro, Tyr, or Leu;"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Ala Pro Met Thr Gln Thr Thr Ser Leu Lys Thr Ser Trp Val Asn Cys

1 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Phe Xaa Xaa Xaa Xaa Xaa IOO 105 110

Ser Leu Ala Ile Phe 130

# (2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 332 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: protein
- (ix) FEATURE:
  - (A) NAME/KEY: Modified-site
  - (B) LOCATION: 112
- (D) OTHER INFORMATION: /note= "position 112 is deleted or Leu, Ala, Val, Ile, Pro, Phe, Trp, or M..."
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 113
- (D) OTHER INFORMATION: /note= "position 113 is deleted or Pro, Phe, Ala, Leu, Ile, Trp, or Met"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 114
- (D) OTHER INFORMATION: /note= "position 114 is deleted or Pro, Phe, Ala, Val, Leu, Ile, Trp or Met"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 115
- (D) OTHER INFORMATION: /note= "position 115 is deleted or Gln, Gly, Ser, Thr, Tyr or Asn"
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:
  - Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu 1 5 10 15
  - Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val
    20 25 30
  - His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu 35 40 45
  - Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu 50 55 60
  - Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln 65 70 75 80

Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln 8.5 Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Xaa 100 105 Xaa Xaa Xaa Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe 120 Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg Arg Ala Pro Pro Thr Thr Ala Val Pro Ser Arg Thr Ser Leu Val Leu Thr Leu Asn Glu Leu Pro Asn 165 170 Arg Thr Ser Gly Leu Leu Glu Thr Asn Phe Thr Ala Ser Ala Arg Thr 180 185 Thr Gly Ser Gly Leu Leu Lys Trp Gln Gln Gly Phe Arg Ala Lys Ile 200 Pro Gly Leu Leu Asn Gln Thr Ser Arg Ser Leu Asp Gln Ile Pro Gly 210 215 Tyr Leu Asn Arg Ile His Glu Leu Leu Asn Gly Thr Arg Gly Leu Phe Pro Gly Pro Ser Arg Arg Thr Leu Gly Ala Pro Asp Ile Ser Ser Gly 250 Thr Ser Asp Thr Gly Ser Leu Pro Pro Asn Leu Gln Pro Gly Tyr Ser 260 265 Pro Ser Pro Thr His Pro Pro Thr Gly Gln Tyr Thr Leu Phe Pro Leu 280 Pro Pro Thr Leu Pro Thr Pro Val Val Gln Leu His Pro Leu Leu Pro 290 295 300 Asp Pro Ser Ala Pro Thr Pro Thr Pro Thr Ser Pro Leu Leu Asn Thr 305 310 315 Ser Tyr Thr His Ser Gln Asn Leu Ser Gln Glu Gly

# (2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 5 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

```
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:
GYSRN
(2) INFORMATION FOR SEQ ID NO:5:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 3 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: unknown
          (D) TOPOLOGY: unknown
    (ii) MOLECULE TYPE: peptide
    (ix) FEATURE:
          (A) NAME/KEY: Peptide
          (B) LOCATION: 1
          (D) OTHER INFORMATION: /note= "where x=(glyglyglyglyser)n
  and where n is an interger"
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:
    Xaa Ala Ala
     1
(2) INFORMATION FOR SEQ ID NO:6:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 3 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: unknown
          (D) TOPOLOGY: unknown
    (ii) MOLECULE TYPE: peptide
    (ix) FEATURE:
          (A) NAME/KEY: Peptide
          (B) LOCATION: 1
    (ix) FEATURE:
          (A) NAME/KEY: Peptide
          (B) LOCATION: 1
          (D) OTHER INFORMATION: /note= "where Xaa
  =(glyglyglyglyser)n and where n is an integer"
```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Xaa Ala Ala

5

```
(2) INFORMATION FOR SEQ ID NO:7:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 3 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: unknown
          (D) TOPOLOGY: unknown
    (ii) MOLECULE TYPE: peptide
    (ix) FEATURE:
          (A) NAME/KEY: Peptide
          (B) LOCATION: 1
          (D) OTHER INFORMATION: /note= "where xaa = (gly(n)ser)m
 and where n is an integer and m is an int..."
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:
    Xaa Ala Ala
(2) INFORMATION FOR SEQ ID NO:8:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 3 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: unknown
          (D) TOPOLOGY: unknown
    (ii) MOLECULE TYPE: peptide
    (ix) FEATURE:
          (A) NAME/KEY: Peptide
          (B) LOCATION: 1
          (D) OTHER INFORMATION: /note= "where Xaa=(alaglyser)n and
 where n is an integer"
    (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:
    Xaa Ala Ala
(2) INFORMATION FOR SEQ ID NO:9:
     (i) SEQUENCE CHARACTERISTICS:
          (A) LENGTH: 36 amino acids
          (B) TYPE: amino acid
          (C) STRANDEDNESS: unknown
          (D) TOPOLOGY: linear
    (ii) MOLECULE TYPE: protein
```

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Gly Gly Gly Ser Gly Gly Ser Gly Gly Gly Ser Glu Gly Gly Gly 1 5 10 15

Ser Glu Gly Gly Ser Glu Gly Gly Ser Glu Gly Gly Ser 20 25 30

Gly Gly Gly Ser 35

- (2) INFORMATION FOR SEQ ID NO:10:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 24 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: unknown
    - (D) TOPOLOGY: unknown
  - (ii) MOLECULE TYPE: peptide
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Ile Ser Glu Pro Ser Gly Pro Ile Ser Thr Ile Asn Pro Ser Pro Pro 1 5 10 15

Ser Lys Glu Ser His Lys Ser Pro 20

- (2) INFORMATION FOR SEQ ID NO:11:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 28 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: unknown
    - (D) TOPOLOGY: unknown
  - (ii) MOLECULE TYPE: peptide
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Ile Glu Gly Arg Ile Ser Glu Pro Ser Gly Pro Ile Ser Thr Ile Asn
1 10 15

Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 20 25

(2) INFORMATION FOR SEQ ID NO:12:

(B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: unknown (ii) MOLECULE TYPE: peptide (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12: Gly Gly Gly Ser (2) INFORMATION FOR SEQ ID NO:13: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13: ACGTCCATGG CNTCNCCNGC NCCNCCTGCT TGTGCACTCC GAGTC 45 (2) INFORMATION FOR SEQ ID NO:14: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)" (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14: ATGCACGAAT TCCCTGACGC AGAGGGTGGA 30 (2) INFORMATION FOR SEQ ID NO:15: (i) SEQUENCE CHARACTERISTICS:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 4 amino acids

(A) LENGTH: 33 base pairs

	(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii	i) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
ix)	i) SEQUENCE DESCRIPTION: SEQ ID NO:15:	
TGACAAC	GCTT ACCTGACGCA GAGGGTGGAC CCT	33
(2) INE	FORMATION FOR SEQ ID NO:16:	
į)	i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 10 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii	i) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
(x)	i) SEQUENCE DESCRIPTION: SEQ ID NO:16:	
AATTCGC	GCAA	10
(2) INE	FORMATION FOR SEQ ID NO:17:	
i)	i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 10 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii	i) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)" .	
	i) SEQUENCE DESCRIPTION: SEQ ID NO:17:	
CATGTTG	GCCG	10
(2) INE	FORMATION FOR SEQ ID NO:18:	
(i	i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 13 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	,

	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:18:	
AATI	rcggc	GG CAA	13
(2)	INFO	RMATION FOR SEQ ID NO:19:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 13 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:19:	
CATO	STTGC	CG CCG	13
(2)	INFO	RMATION FOR SEQ ID NO:20:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 22 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:20:	
TAA	rcggc	GG CAACGGCGGC AA	22
(2)	INFO	RMATION FOR SEQ ID NO:21:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 22 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	
CAT	GTTGCCG CCGTTGCCGC CG	22
(2)	INFORMATION FOR SEQ ID NO:22:	
	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 27 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:	
CGA'	TCCATGG AGGTTCACCC TTTGCCT	27
(2)	INFORMATION FOR SEQ ID NO:23:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 29 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:	
GAT	CAAGCTT ATGGGCACTG GCTCAGTCT	29
(2)	INFORMATION FOR SEQ ID NO:24:	
	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 27 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:	
CGAT	PACATGT TGCCTACACC TGTCCTG	27
(2)	INFORMATION FOR SEQ ID NO:25:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 29 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid    (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:	
GATC	CAAGCTT AAGGGTGAAC CTCTGGGCA	29
(2)	INFORMATION FOR SEQ ID NO:26:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 27 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid    (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:	
CGAT	CCATGG TCCTGCTGCC TGCTGTG	27
(2)	INFORMATION FOR SEQ ID NO:27:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 29 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid   (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

GATCAAGCTT AAGGTGTAGG CAAAGGGTG	29
(2) INFORMATION FOR SEQ ID NO:28:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 30 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	
CGATCCATGG CTGTGGACTT TAGCTTGGGA	30
(2) INFORMATION FOR SEQ ID NO:29:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 29 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
(with groupings programment and the volume	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:	
GATCAAGCTT AAGGCAGCAG GACAGGTGT	29

(2) INFORMATION FOR SEQ ID NO:30:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 27 base pairs (B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "DNA (synthetic)"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

27

(2) INFO	ORMATION FOR SEQ ID NO:31:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 29 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii)	<pre>MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
(xi)	) SEQUENCE DESCRIPTION: SEQ ID NO:31:	
GATCAAG	CTT ACACAGCAGG CAGCAGGAC	2
(2) INFO	ORMATION FOR SEQ ID NO:32:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 27 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:32:	
CGATCCA:	rgg gagaatggaa aacccag	2
(2) INFO	DRMATION FOR SEQ ID NO:33:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 29 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:33:	
GATCAAGO	CTT ACAAGCTAAA GTCCACAGC	2
(2) INFO	DRMATION FOR SEQ ID NO:34:	
(i)	SEQUENCE CHARACTERISTICS:	

(B) (C)	LENGTH: 27 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear	
	CULE TYPE: other nucleic acid DESCRIPTION: /desc = "DNA (synthetic)"	
/ : \ apour		
(XI) SEQUE	ENCE DESCRIPTION: SEQ ID NO:34:	
CGATCCATGG GAC	CCCACTTG CCTCTCA	27
(2) INFORMATIO	ON FOR SEQ ID NO:35:	
(A) (B) (C)	ENCE CHARACTERISTICS: LENGTH: 29 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear	
	CULE TYPE: other nucleic acid  DESCRIPTION: /desc = "DNA (synthetic)"	
	ENCE DESCRIPTION: SEQ ID NO:35:	29
		29
(2) INFORMATIO	ON FOR SEQ ID NO:36:	
(A) (B) (C)	ENCE CHARACTERISTICS: LENGTH: 27 base pairs TYPE: nucleic acid STRANDEDNESS: single TOPOLOGY: linear	
	CULE TYPE: other nucleic acid DESCRIPTION: /desc = "DNA (synthetic)"	
(xi) SEQUE	ENCE DESCRIPTION: SEQ ID NO:36:	
CAGTCCATGG GAA	ACCCAGCT TCCTCCA	27
(2) INFORMATIO	ON FOR SEQ ID NO:37:	
(A) (B)	ENCE CHARACTERISTICS: LENGTH: 29 base pairs TYPE: nucleic acid STRANDEDNESS: single	

	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:37:	
GAT	CAAGC	TT AAAGGAGGCT CTGCAGGGC	29
(2)	INFO	RMATION FOR SEQ ID NO:38:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 27 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:38:	
CGA:	CCAT	GG GCAGGACCAC AGCTCAC	27
(2)	INFO	RMATION FOR SEQ ID NO:39:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 30 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:39:	
GATO	CAAGC'	TT ACTGTGGAGG AAGCTGGGTT	30
(2)	INFO	RMATION FOR SEQ ID NO:40:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 30 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid	

(D) TOPOLOGY: linear

		(A) DESCRIPTION: /desc = "DNA (synthetic)"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:40:	
CGAI	CCATO	G CTCACAAGGA TCCCAATGCC	30
(2)	INFO	MATION FOR SEQ ID NO:41:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 29 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:41:	
GATO	CAAGC	T ATGTGGTCCT GCGCTGTGG	29
(2)	INFO	MATION FOR SEQ ID NO:42:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 30 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:42:	
CGAT	CCATO	G ATCCCAATGC CATCTTCCTG	30
(2)	INFO	MATION FOR SEQ ID NO:43:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 29 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:	
GATCAAGCTT ACTTGTGAGC TGTGGTCCT	29
(2) INFORMATION FOR SEQ ID NO:44:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 30 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:	
CGATCCATGG CCATCTTCCT GAGCTTCCAA	30
(2) INFORMATION FOR SEQ ID NO:45:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 32 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:	
GATCAAGCTT AATTGGGATC CTTGTGAGCT GT	32
(2) INFORMATION FOR SEQ ID NO:46:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 83 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: unknown</li><li>(D) TOPOLOGY: unknown</li></ul>	
<pre>(ii) MOLECULE TYPE: other nucleic acid   (A) DESCRIPTION: /desc = "SYNTHETIC"</pre>	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:	
AATTCCGTCG TAAACTGACC TTCTATCTGA AAACCTTGGA GAACGCGCAG GCTCAACAGT	60
ACGTAGAGGG CGGTGGAGGC TCC	8:
(2) INFORMATION FOR SEQ ID NO:47:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 83 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:	
CCGGGGAGCC TCCACCGCCC TCTACGTACT GTTGAGCCTG CGCGTTCTCC AAGGTTTTCA	60
GATAGAAGGT CAGTTTACGA CGG	83
(2) INFORMATION FOR SEQ ID NO:48:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 59 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:	
GTTACCCTTG AGCAAGCGCA GGAACAACAG GGTGGTGGCT CTAACTGCTC TATAATGAT	59
(2) INFORMATION FOR SEQ ID NO:49:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 56 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
<pre>(ii) MOLECULE TYPE: other nucleic acid</pre>	

(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:49:	
CGATCATTA	T AGAGCAGTTA GAGCCACCAC CCTGTTGTTC CTGCGCTTGC TCAAGG	56
(2) INFOR	MATION FOR SEQ ID NO:50:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 80 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:50:	
GTTACCCTT	G AGCAAGCGCA GGAACAACAG GGTGGTGGCT CTGGCGGTGG CAGCGGCGGC	60
GGTTCTAAC	T GCTCTATAAT	80
(2) INFOR	MATION FOR SEQ ID NO:51:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 80 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: other nucleic acid  (A) DESCRIPTION: /desc = "DNA (synthetic)"	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:51:	
CGATCATTA	T AGAGCAGTTA GAACCGCCGC CGCTGCCACC GCCAGAGCCA CCACCCTGTT	60
GTTCCTGCG	C TTGCTCAAGG	80
(2) INFOR	MATION FOR SEQ ID NO:52:	
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 30 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	

	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:52:	
GATO	CGACCA	T GGCTCTGGAC CCGAACAACC	30
(2)	INFOR	MATION FOR SEQ ID NO:53:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 28 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii) i	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:53:	
CTC	SATTAC	G TACAAAGGTG CAGGTGGT	28
(2)	INFOR	MATION FOR SEQ ID NO:54:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 32 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:54:	
GATO	GACCA'	T GGCTAATGCA TCAGGTATTG AG	32
(2)	INFOR	MATION FOR SEQ ID NO:55:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 28 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii) 1	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:

ርጥርርእጥጥእርር ጥእጥጥ	CPNNCP	ጥሮጥጥሮአሮኦ

28

(2) INFORMATION FOR SEQ ID NO:56:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 32 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:	
GATCGACCAT GGCTGCACCC TCTCGACATC CA	32
(2) INFORMATION FOR SEQ ID NO:57:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 28 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
<pre>(ii) MOLECULE TYPE: other nucleic acid   (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:	
CTCGATTACG TAGGCCGTGG CAGAGGGC	28
(2) INFORMATION FOR SEQ ID NO:58:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 32 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
(ii) MOLECULE TYPE: other nucleic acid	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:

(A) DESCRIPTION: /desc = "DNA (synthetic)"

(2) INFORMATION FOR SEQ ID NO:59:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 28 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
<pre>(ii) MOLECULE TYPE: other nucleic acid</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:	
CTCGATTACG TACTTGATGA TGATTGGA	28
(2) INFORMATION FOR SEQ ID NO:60:	
<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 54 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
<pre>(ii) MOLECULE TYPE: other nucleic acid       (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	
GCTCTGAGAG CCGCCAGAGC CGCCAGAGGG CTGCGCAAGG TGGCGTAGAA CGCG	54
(2) INFORMATION FOR SEQ ID NO:61:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 54 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:	
CAGCCCTCTG GCGGCTCTGG CGGCTCTCAG AGCTTCCTGC TCAAGTCTTT AGAG	54
(2) INFORMATION FOR SEQ ID NO:62:	

	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 18 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:62:	
GGG	CTGCG	CA AGGTGGCG	18
(2)	INFO	RMATION FOR SEQ ID NO:63:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 21 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:63:	
ACA	CCATT	GG GCCCTGCCAG C	21
(2)	INFO	RMATION FOR SEQ ID NO:64:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 32 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:64:	
GATO	CGACC	AT GGCTTACAAG CTGTGCCACC CC	32
(2)	INFO	RMATION FOR SEQ ID NO:65:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs	

	(B) TYPE: nucleic acid	
	<pre>(C) STRANDEDNESS: single (D) TOPOLOGY: linear</pre>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:	
CGA!	TCGAAGC TTATTAGGTG GCACACAGCT TCTCCT	36
(2)	INFORMATION FOR SEQ ID NO:66:	
	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 32 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:	
GAT(	CGACCAT GGCTCCCGAG TTGGGTCCCA CC	32
(2)	INFORMATION FOR SEQ ID NO:67:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 36 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:	
CGAT	TCGAAGC TTATTAGGAT ATCCCTTCCA GGGCCT	36
(2)	INFORMATION FOR SEQ ID NO:68:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 32 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>	

	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:68:	
GATO	CGACC	AT GGCTATGGCC CCTGCCCTGC AG	32
(2)	INFO	RMATION FOR SEQ ID NO:69:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 36 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
		SEQUENCE DESCRIPTION: SEQ ID NO:69:	
CGAT	CGAA	GC TTATTATCCC AGTTCTTCCA TCTGCT	36
(2)	INFO	RMATION FOR SEQ ID NO:70:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 32 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "DNA (synthetic)"	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:70:	
GATO	GACC	AT GGCTACCCAG GGTGCCATGC CG	32
(2)	INFO	RMATION FOR SEQ ID NO:71:	
	(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 36 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: other nucleic acid	

(D) TOPOLOGY: linear

	(A) DESCRIPTION: /desc = "DNA (synthetic)"	
(	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:	
CGATC	CGAAGC TTATTAGGGC TGCAGGGCAG GGGCCA	36
(2) I	INFORMATION FOR SEQ ID NO:72:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 36 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
(	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:	
CGATC	CGAAGC TTATTAGGGC TGCAGGGCAG GGGCCA	36
(2) I	INFORMATION FOR SEQ ID NO:73:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 36 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:	
CGATC	CGAAGC TTATTAGGCG AAGGCCGGCA TGGCAC	36
(2) I	INFORMATION FOR SEQ ID NO:74:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 21 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
(	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:	
GTAG	GAGGGCG GTGGAGGCTC C	21
(2)	INFORMATION FOR SEQ ID NO:75:	
	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 25 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: single</li> <li>(D) TOPOLOGY: linear</li> </ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:	
CCG	GGGAGCC TCCACCGCCC TCTAC	25
(2)	INFORMATION FOR SEQ ID NO:76:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 53 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
	<pre>(ii) MOLECULE TYPE: other nucleic acid    (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:	
TTCT	FACGCCA CCTTGCGCAG CCCGGCGGCG GCTCTGACAT GTCTACACCA TTG	53
(2)	INFORMATION FOR SEQ ID NO:77:	
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 53 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li></ul>	
	(D) TOPOLOGY: linear	
	<pre>(ii) MOLECULE TYPE: other nucleic acid      (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:	
CAATGGTGTA GACATGTCAG AGCCGCCGCC GGGCTGCGCA AGGTGGCGTA GAA	53
(2) INFORMATION FOR SEQ ID NO:78:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 439 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:	
GCTAACTGCT CTATAATGAT CGATGAAATT ATACATCACT TAAAGAGACC ACCTGCACCT	60
TTGCTGGACC CGAACAACCT CAATGACGAA GACGTCTCTA TCCTGATGGA CCGAAACCTT	120
CGACTTCCAA ACCTGGAGAG CTTCGTAAGG GCTGTCAAGA ACTTAGAAAA TGCATCAGGT	180
ATTGAGGCAA TTCTTCGTAA TCTCCAACCA TGTCTGCCCT CTGCCACGGC CGCACCCTCT	240
CGACATCCAA TCATCATCAA GGCAGGTGAC TGGCAAGAAT TCCGGGAAAA ACTGACGTTC	300
TATCTGGTTA CCCTTGAGCA AGCGCAGGAA CAACAGTACG TAGAGGGCGG TGGAGGCTCC	360
CCGGGTGAAC CGTCTGGTCC AATCTCTACT ATCAACCCGT CTCCTCCGTC TAAAGAATCT	420
CATAAATCTC CAAACATGT	439
(2) INFORMATION FOR SEQ ID NO:79:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 465 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>	
<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "DNA (synthetic)"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:	
TCCCCAGCTC CACCTGCTTG TGACCTCCGA GTCCTCAGTA AACTGCTTCG TGACTCCCAT	60
GTCCTTCACA GCAGACTGAG CCAGTGCCCA GAGGTTCACC CTTTGCCTAC ACCTGTCCTG	120
CTGCCTGCTG TGGACTTTAG CTTGGGAGAA TGGAAAACCC AGATGGAGGA GACCAAGGCA	180

CAGGACATTC	TGGGAGCAGT	GACCCTTCTG	CTGGAGGGAG	TGATGGCAGC	ACGGGGACAA	240
CTGGGACCCA	CTTGCCTCTC	ATCCCTCCTG	GGGCAGCTTT	CTGGACAGGT	CCGTCTCCTC	300
CTTGGGGCCC	TGCAGAGCCT	CCTTGGAACC	CAGCTTCCTC	CACAGGGCAG	GACCACAGCT	360
CACAAGGATC	CCAATGCCAT	CTTCCTGAGC	TTCCAACACC	TGCTCCGAGG	AAAGGTGCGT	420
TTCCTGATGC	TTGTAGGAGG	GTCCACCCTC	TGCGTCAGGG	AATTC		465

## (2) INFORMATION FOR SEQ ID NO:80:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 927 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "DNA (synthetic)"

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:

TCCCCAGCTC	CACCTGCTTG	TGACCTCCGA	GTCCTCAGTA	AACTGCTTCG	TGACTCCCAT	60
GTCCTTCACA	GCAGACTGAG	CCAGTGCCCA	GAGGTTCACC	CTTTGCCTAC	ACCTGTCCTG	120
CTGCCTGCTG	TGGACTTTAG	CTTGGGAGAA	TGGAAAACCC	AGATGGAGGA	GACCAAGGCA	180
CAGGACATTC	TGGGAGCAGT	GACCCTTCTG	CTGGAGGGAG	TGATGGCAGC	ACGGGGACAA	240
CTGGGACCCA	CTTGCCTCTC	ATCCCTCCTG	GGGCAGCTTT	CTGGACAGGT	CCGTCTCCTC	300
CTTGGGGCCC	TGCAGAGCCT	CCTTGGAACC	CAGCTTCCTC	CACAGGGCAG	GACCACAGCT	360
CACAAGGATC	CCAATGCCAT	CTTCCTGAGC	TTCCAACACC	TGCTCCGAGG	AAAGGTGCGT	420
TTCCTGATGC	TTGTAGGAGG	GTCCACCCTC	TGCGTCAGGG	AATTCGGCGG	CAACATGGCG	480
TCTCCCGCTC	CGCCTGCTTG	TGACCTCCGA	GTCCTCAGTA	AACTGCTTCG	TGACTCCCAT	540
GTCCTTCACA	GCAGACTGAG	CCAGTGCCCA	GAGGTTCACC	CTTTGCCTAC	ACCTGTCCTG	600
CTGCCTGCTG	TGGACTTTAG	CTTGGGAGAA	TGGAAAACCC	AGATGGAGGA	GACCAAGGCA	660
CAGGACATTC	TGGGAGCAGT	GACCCTTCTG	CTGGAGGGAG	TGATGGCAGC	ACGGGGACAA	720
CTGGGACCCA	CTTGCCTCTC	ATCCCTCCTG	GGGCAGCTTT	CTGGACAGGT	CCGTCTCCTC	780
CTTGGGGCCC	TGCAGAGCCT	CCTTGGAACC	CAGGGCAGGA	CCACAGCTCA	CAAGGATCCC	840
AATGCCATCT	TCCTGAGCTT	CCAACACCTG	CTCCGAGGAA	AGGTGCGTTT	CCTGATGCTT	900

#### (2) INFORMATION FOR SEQ ID NO:81:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 936 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "DNA (synthetic)"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:

TCCCCAGCTC	CACCTGCTTG	TGACCTCCGA	GTCCTCAGTA	AACTGCTTCG	TGACTCCCAT	60
GTCCTTCACA	GCAGACTGAG	CCAGTGCCCA	GAGGTTCACC	CTTTGCCTAC	ACCTGTCCTG	120
CTGCCTGCTG	TGGACTTTAG	CTTGGGAGAA	TGGAAAACCC	AGATGGAGGA	GACCAAGGCA	180
CAGGACATTC	TGGGAGCAGT	GACCCTTCTG	CTGGAGGGAG	TGATGGCAGC	ACGGGGACAA	240
CTGGGACCCA	CTTGCCTCTC	ATCCCTCCTG	GGGCAGCTTT	CTGGACAGGT	CCGTCTCCTC	300
CTTGGGGCCC	TGCAGAGCCT	CCTTGGAACC	CAGCTTCCTC	CACAGGGCAG	GACCACAGCT	360
CACAAGGATC	CCAATGCCAT	CTTCCTGAGC	TTCCAACACC	TGCTCCGAGG	AAAGGTGCGT	420
TTCCTGATGC	TTGTAGGAGG	GTCCACCCTC	TGCGTCAGGG	AATTCGGCAA	CATGGCGTCT	480
CCCGCTCCGC	CTGCTTGTGA	CCTCCGAGTC	CTCAGTAAAC	TGCTTCGTGA	CTCCCATGTC	540
CTTCACAGCA	GACTGAGCCA	GTGCCCAGAG	GTTCACCCTT	TGCCTACACC	TGTCCTGCTG	600
CCTGCTGTGG	ACTTTAGCTT	GGGAGAATGG	AAAACCCAGA	TGGAGGAGAC	CAAGGCACAG	660
GACATTCTGG	GAGCAGTGAC	CCTTCTGCTG	GAGGGAGTGA	TGGCAGCACG	GGGACAACTG	720
GGACCCACTT	GCCTCTCATC	CCTCCTGGGG	CAGCTTTCTG	GACAGGTCCG	TCTCCTCCTT	780
GGGGCCCTGC	AGAGCCTCCT	TGGAACCCAG	CTTCCTCCAC	AGGGCAGGAC	CACAGCTCAC	840
AAGGATCCCA	ATGCCATCTT	CCTGAGCTTC	CAACACCTGC	TCCGAGGAAA	GGTGCGTTTC	900
CTGATGCTTG	TAGGAGGGTC	CACCCTCTGC	GTCAGG			936

#### (2) INFORMATION FOR SEQ ID NO:82:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 939 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

### 

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:

TCCCCAGCTC	CACCTGCTTG	TGACCTCCGA	GTCCTCAGTA	AACTGCTTCG	TGACTCCCAT	60
GTCCTTCACA	GCAGACTGAG	CCAGTGCCCA	GAGGTTCACC	CTTTGCCTAC	ACCTGTCCTG	120
CTGCCTGCTG	TGGACTTTAG	CTTGGGAGAA	TGGAAAACCC	AGATGGAGGA	GACCAAGGCA	180
CAGGACATTC	TGGGAGCAGT	GACCCTTCTG	CTGGAGGGAG	TGATGGCAGC	ACGGGGACAA	240
CTGGGACCCA	CTTGCCTCTC	ATCCCTCCTG	GGGCAGCTTT	CTGGACAGGT	CCGTCTCCTC	300
CTTGGGGCCC	TGCAGAGCCT	CCTTGGAACC	CAGCTTCCTC	CACAGGGCAG	GACCACAGCT	360
CACAAGGATC	CCAATGCCAT	CTTCCTGAGC	TTCCAACACC	TGCTCCGAGG	AAAGGTGCGT	420
TTCCTGATGC	TTGTAGGAGG	GTCCACCCTC	TGCGTCAGGG	AATTCGGCGG	CAACATGGCG	480
TCTCCCGCTC	CGCCTGCTTG	TGACCTCCGA	GTCCTCAGTA	AACTGCTTCG	TGACTCCCAT	540
GTCCTTCACA	GCAGACTGAG	CCAGTGCCCA	GAGGTTCACC	CTTTGCCTAC	ACCTGTCCTG	600
CTGCCTGCTG	TGGACTTTAG	CTTGGGAGAA	TGGAAAACCC	AGATGGAGGA	GACCAAGGCA	660
CAGGACATTC	TGGGAGCAGT	GACCCTTCTG	CTGGAGGGAG	TGATGGCAGC	ACGGGGACAA	720
CTGGGACCCA	CTTGCCTCTC	ATCCCTCCTG	GGGCAGCTTT	CTGGACAGGT	CCGTCTCCTC	780
CTTGGGGCCC	TGCAGAGCCT	CCTTGGAACC	CAGCTTCCTC	CACAGGGCAG	GACCACAGCT	840
CACAAGGATC	CCAATGCCAT	CTTCCTGAGC	TTCCAACACC	TGCTCCGAGG	AAAGGTGCGT	900
TTCCTGATGC	TTGTAGGAGG	GTCCACCCTC	TGCGTCAGG			939

#### (2) INFORMATION FOR SEQ ID NO:83:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 948 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "DNA (synthetic)"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:

TCCCCAGCGC	CGCCTGCTTG	TGACCTCCGA	GTCCTCAGTA	AACTGCTTCG	TGACTCCCAT	60
GTCCTTCACA	GCAGACTGAG	CCAGTGCCCA	GAGGTTCACC	CTTTGCCTAC	ACCTGTCCTG	120
CTGCCTGCTG	TGGACTTTAG	CTTGGGAGAA	TGGAAAACCC	AGATGGAGGA	GACCAAGGCA	180
CAGGACATTC	TGGGAGCAGT	GACCCTTCTG	CTGGAGGGAG	TGATGGCAGC	ACGGGGACAA	240
CTGGGACCCA	CTTGCCTCTC	ATCCCTCCTG	GGGCAGCTTT	CTGGACAGGT	CCGTCTCCTC	300
CTTGGGGCCC	TGCAGAGCCT	CCTTGGAACC	CAGCTTCCTC	CACAGGGCAG	GACCACAGCT	360
CACAAGGATC	CCAATGCCAT	CTTCCTGAGC	TTCCAACACC	TGCTCCGAGG	AAAGGTGCGT	420
TTCCTGATGC	TTGTAGGAGG	GTCCACCCTC	TGCGTCAGGG	AATTCGGCGG	CAACGGCGGC	480
AACATGGCGT	CCCCAGCGCC	GCCTGCTTGT	GACCTCCGAG	TCCTCAGTAA	ACTGCTTCGT	540
GACTCCCATG	TCCTTCACAG	CAGACTGAGC	CAGTGCCCAG	AGGTTCACCC	TTTGCCTACA	600
CCTGTCCTGC	TGCCTGCTGT	GGACTTTAGC	TTGGGAGAAT	GGAAAACCCA	GATGGAGGAG	660
ACCAAGGCAC	AGGACATTCT	GGGAGCAGTG	ACCCTTCTGC	TGGAGGGAGT	GATGGCAGCA	720
CGGGGACAAC	TGGGACCCAC	TTGCCTCTCA	TCCCTCCTGG	GGCAGCTTTC	TGGACAGGTC	780
CGTCTCCTCC	TTGGGGCCCT	GCAGAGCCTC	CTTGGAACCC	AGCTTCCTCC	ACAGGCAGG	840
ACCACAGCTC	ACAAGGATCC	CAATGCCATC	TTCCTGAGCT	TCCAACACCT	GCTCCGAGGA	900
AAGGTGCGTT	TCCTGATGCT	TGTAGGAGGG	TCCACCCTCT	GCGTCAGG		948

## (2) INFORMATION FOR SEQ ID NO:84:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 688 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "DNA (synthetic)"

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:

CATGGCTAAC	TGCTCTATAA	TGATCGATGA	AATTATACAT	CACTTAAAGA	GACCACCTGC	60
ACCTTTGCTG	GACCCGAACA	ACCTCAATGA	CGAAGACGTC	TCTATCCTGA	TGGACCGAAA	120
CCTTCGACTT	CCAAACCTGG	AGAGCTTCGT	AAGGGCTGTC	AAGAACTTAG	AAAATGCATC	180
AGGTATTGAG	GCAATTCTTC	GTAATCTCCA	ACCATGTCTG	CCCTCTGCCA	CGGCCGCACC	240

•	CTCTCGACAT	CCAATCATCA	TCAAGGCAGG	TGACTGGCAA	GAATTCCGGG	AAAAACTGAC	300
•	GTTCTATCTG	GTTACCCTTG	AGCAAGCGCA	GGAACAACAG	GGTGGTGGCT	CTAACTGCTC	360
	TATAATGATC	GATGAAATTA	TACATCACTT	AAAGAGACCA	CCTGCACCTT	TGCTGGACCC	420
	GAACAACCTC	AATGACGAAG	ACGTCTCTAT	CCTGATGGAC	CGAAACCTTC	GACTTCCAAA	480
,	CCTGGAGAGC	TTCGTAAGGG	CTGTCAAGAA	CTTAGAAAAT	GCATCAGGTA	TTGAGGCAAT	540
	TCTTCGTAAT	CTCCAACCAT	GTCTGCCCTC	TGCCACGGCC	GCACCCTCTC	GACATCCAAT	600
	CATCATCAAG	GCAGGTGACT	GGCAAGAATT	CCGGGAAAAA	CTGACGTTCT	ATCTGGTTAC	660
	CCTTGAGCAA	GCGCAGGAAC	AACAGTAC				688

#### (2) INFORMATION FOR SEQ ID NO:85:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 712 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown

#### (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "SYNTHETIC"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:

CATGGCTAAC TGCTCTATAA TGATCGATGA AATTATACAT CACTTAAAGA GACCACCTGC 60 ACCTTTGCTG GACCCGAACA ACCTCAATGA CGAAGACGTC TCTATCCTGA TGGACCGAAA 120 CCTTCGACTT CCAAACCTGG AGAGCTTCGT AAGGGCTGTC AAGAACTTAG AAAATGCATC 180 AGGTATTGAG GCAATTCTTC GTAATCTCCA ACCATGTCTG CCCTCTGCCA CGGCCGCACC 240 CTCTCGACAT CCAATCATCA TCAAGGCAGG TGACTGGCAA GAATTCCGGG AAAAACTGAC 300 GTTCTATCTG GTTACCCTTG AGCAAGCGCA GGAACAACAG GGTGGTGGCT CTGGCGGTGG 360 CAGCGGCGC GGTTCTAACT GCTCTATAAT GATCGATGAA ATTATACATC ACTTAAAGAG 420 ACCACCTGCA CCTTTGCTGG ACCCGAACAA CCTCAATGAC GAAGACGTCT CTATCCTGAT 480 GGACCGAAAC CTTCGACTTC CAAACCTGGA GAGCTTCGTA AGGGCTGTCA AGAACTTAGA 540 AAATGCATCA GGTATTGAGG CAATTCTTCG TAATCTCCAA CCATGTCTGC CCTCTGCCAC 600 GGCCGCACCC TCTCGACATC CAATCATCAT CAAGGCAGGT GACTGGCAAG AATTCCGGGA 660 AAAACTGACG TTCTATCTGG TTACCCTTGA GCAAGCGCAG GAACAACAGT AC 712

(2) INFORMATION FOR SEQ ID NO:86:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 975 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "DNA (synthetic)"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:

ATGGCTCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	60
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	120
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	180
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	240
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGG	GTGGTGGCTC	TAACTGCTCT	300
ATAATGATCG	ATGAAATTAT	ACATCACTTA	AAGAGACCAC	CTGCACCTTT	GTACGTAGAG	360
GGCGGTGGAG	GCTCCCCGGG	TGAACCGTCT	GGTCCAATCT	CTACTATCAA	CCCGTCTCCT	420
CCGTCTAAAG	AATCTCATAA	ATCTCCAAAC	ATGGCTACCC	AGGGTGCCAT	GCCGGCCTTC	480
GCCTCTGCTT	TCCAGCGCCG	GGCAGGAGGG	GTCCTGGTTG	CTAGCCATCT	GCAGAGCTTC	540
CTGGAGGTGT	CGTACCGCGT	TCTACGCCAC	CTTGCGCAGC	CCTCTGGCGG	CTCTGGCGGC	600
TCTCAGAGCT	TCCTGCTCAA	GTCTTTAGAG	CAAGTGAGAA	AGATCCAGGG	CGATGGCGCA	660
GCGCTCCAGG	AGAAGCTGTG	TGCCACCTAC	AAGCTGTGCC	ACCCCGAGGA	GCTGGTGCTG	720
CTCGGACACT	CTCTGGGCAT	CCCCTGGGCT	CCCCTGAGCT	CCTGCCCCAG	CCAGGCCCTG	780
CAGCTGGCAG	GCTGCTTGAG	CCAACTCCAT	AGCGGCCTTT	TCCTCTACCA	GGGGCTCCTG	840
CAGGCCCTGG	AAGGGATATC	CCCCGAGTTG	GGTCCCACCT	TGGACACACT	GCAGCTGGAC	900
GTCGCCGACT	TTGCCACCAC	CATCTGGCAG	CAGATGGAAG	AACTGGGAAT	GGCCCCTGCC	960
CTGCAGCCCT	AATAA					975

#### (2) INFORMATION FOR SEQ ID NO:87:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 975 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

### 

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:

ATGGCTCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	60
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	120
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	180
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	240
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGG	GTGGTGGCTC	TAACTGCTCT	300
ATAATGATCG	ATGAAATTAT	ACATCACTTA	AAGAGACCAC	CTGCACCTTT	GTACGTAGAG	360
GGCGGTGGAG	GCTCCCCGGG	TGAACCGTCT	GGTCCAATCT	CTACTATCAA	CCCGTCTCCT	420
CCGTCTAAAG	AATCTCATAA	ATCTCCAAAC	ATGGCTACCC	AGGGTGCCAT	GCCGGCCTTC	480
GCCTCTGCTT	TCCAGCGCCG	GGCAGGAGGG	GTCCTGGTTG	CTAGCCATCT	GCAGAGCTTC	540
CTGGAGGTGT	CGTACCGCGT	TCTACGCCAC	CTTGCGCAGC	CCTCTGGCGG	CTCTGGCGGC	600
TCTCAGAGCT	TCCTGCTCAA	GTCTTTAGAG	CAAGTGAGAA	AGATCCAGGG	CGATGGCGCA	660
GCGCTCCAGG	AGAAGCTGTG	TGCCACCTAC	AAGCTGTGCC	ACCCCGAGGA	GCTGGTGCTG	720
CTCGGACACT	CTCTGGGCAT	CCCCTGGGCT	CCCCTGAGCT	CCTGCCCCAG	CCAGGCCCTG	780
CAGCTGGCAG	GCTGCTTGAG	CCAACTCCAT	AGCGGCCTTT	TCCTCTACCA	GGGGCTCCTG	840
CAGGCCCTGG	AAGGGATATC	CCCCGAGTTG	GGTCCCACCT	TGGACACACT	GCAGCTGGAC	900
GTCGCCGACT	TTGCCACCAC	CATCTGGCAG	CAGATGGAAG	AACTGGGAAT	GGCCCCTGCC	960
CTGCAGCCCT	AATAA					975

# (2) INFORMATION FOR SEQ ID NO:88:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 975 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "DNA (synthetic)"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:

ATGGCTGCAC	CCTCTCGACA	TCCAATCATC	ATCAAGGCAG	GTGACTGGCA	AGAATTCCGG	60
GAAAAACTGA	CGTTCTATCT	GGTTACCCTT	GAGCAAGCGC	AGGAACAACA	GGGTGGTGGC	120
TCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	180
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	240
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	300
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CTACGTAGAG	360
GGCGGTGGAG	GCTCCCCGGG	TGAACCGTCT	GGTCCAATCT	CTACTATCAA	CCCGTCTCCT	420
CCGTCTAAAG	AATCTCATAA	ATCTCCAAAC	ATGGCTACCC	AGGGTGCCAT	GCCGGCCTTC	480
GCCTCTGCTT	TCCAGCGCCG	GGCAGGAGGG	GTCCTGGTTG	CTAGCCATCT	GCAGAGCTTC	540
CTGGAGGTGT	CGTACCGCGT	TCTACGCCAC	CTTGCGCAGC	CCTCTGGCGG	CTCTGGCGGC	600
TCTCAGAGCT	TCCTGCTCAA	GTCTTTAGAG	CAAGTGAGAA	AGATCCAGGG	CGATGGCGCA	660
GCGCTCCAGG	AGAAGCTGTG	TGCCACCTAC	AAGCTGTGCC	ACCCCGAGGA	GCTGGTGCTG	720
CTCGGACACT	CTCTGGGCAT	CCCCTGGGCT	CCCCTGAGCT	CCTGCCCCAG	CCAGGCCCTG	780
CAGCTGGCAG	GCTGCTTGAG	CCAACTCCAT	AGCGGCCTTT	TCCTCTACCA	GGGGCTCCTG	840
CAGGCCCTGG	AAGGGATATC	CCCCGAGTTG	GGTCCCACCT	TGGACACACT	GCAGCTGGAC	900
GTCGCCGACT	TTGCCACCAC	CATCTGGCAG	CAGATGGAAG	AACTGGGAAT	GGCCCCTGCC	960
CTGCAGCCCT	AATAA					975

## (2) INFORMATION FOR SEQ ID NO:89:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 975 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "DNA (synthetic)"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:

I	ATGGCTGCAG	GTGACTGGCA	AGAATTCCGG	GAAAAACTGA	CGTTCTATCT	GGTTACCCTT	60
(	GAGCAAGCGC	AGGAACAACA	GGGTGGTGGC	TCTAACTGCT	CTATAATGAT	CGATGAAATT	120
I	ATACATCACT	TAAAGAGACC	ACCTGCACCT	TTGCTGGACC	CGAACAACCT	CAATGACGAA	180

GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	240
GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	300
TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	CGACATCCAA	TCATCATCAA	GTACGTAGAG	360
GGCGGTGGAG	GCTCCCCGGG	TGAACCGTCT	GGTCCAATCT	CTACTATCAA	CCCGTCTCCT	420
CCGTCTAAAG	AATCTCATAA	ATCTCCAAAC	ATGGCTACCC	AGGGTGCCAT	GCCGGCCTTC	480
GCCTCTGCTT	TCCAGCGCCG	GGCAGGAGGG	GTCCTGGTTG	CTAGCCATCT	GCAGAGCTTC	540
CTGGAGGTGT	CGTACCGCGT	TCTACGCCAC	CTTGCGCAGC	CCTCTGGCGG	CTCTGGCGGC	600
TCTCAGAGCT	TCCTGCTCAA	GTCTTTAGAG	CAAGTGAGAA	AGATCCAGGG	CGATGGCGCA	660
GCGCTCCAGG	AGAAGCTGTG	TGCCACCTAC	AAGCTGTGCC	ACCCCGAGGA	GCTGGTGCTG	720
CTCGGACACT	CTCTGGGCAT	CCCCTGGGCT	CCCCTGAGCT	CCTGCCCCAG	CCAGGCCCTG	780
CAGCTGGCAG	GCTGCTTGAG	CCAACTCCAT	AGCGGCCTTT	TCCTCTACCA	GGGGCTCCTG	840
CAGGCCCTGG	AAGGGATATC	CCCCGAGTTG	GGTCCCACCT	TGGACACACT	GCAGCTGGAC	900
GTCGCCGACT	TTGCCACCAC	CATCTGGCAG	CAGATGGAAG	AACTGGGAAT	GGCCCCTGCC	960
CTGCAGCCCT	AATAA					975

# (2) INFORMATION FOR SEQ ID NO:90:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 999 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "DNA (synthetic)"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:

1	ATGGCTCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	60
(	CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	120
(	GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	180
•	TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	240
•	TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGG	GTGGTGGCTC	TGGCGGTGGC	300
i	AGCGGCGGCG	GTTCTAACTG	CTCTATAATG	ATCGATGAAA	TTATACATCA	CTTAAAGAGA	360
(	CCACCTGCAC	CTTTGTACGT	AGAGGGCGGT	GGAGGCTCCC	CGGGTGAACC	GTCTGGTCCA	420

ATCTCTACTA	TCAACCCGTC	TCCTCCGTCT	AAAGAATCTC	ATAAATCTCC	AAACATGGCT	480
ACCCAGGGTG	CCATGCCGGC	CTTCGCCTCT	GCTTTCCAGC	GCCGGGCAGG	AGGGGTCCTG	540
GTTGCTAGCC	ATCTGCAGAG	CTTCCTGGAG	GTGTCGTACC	GCGTTCTACG	CCACCTTGCG	600
CAGCCCTCTG	GCGGCTCTGG	CGGCTCTCAG	AGCTTCCTGC	TCAAGTCTTT	AGAGCAAGTG	660
AGAAAGATCC	AGGGCGATGG	CGCAGCGCTC	CAGGAGAAGC	TGTGTGCCAC	CTACAAGCTG	720
TGCCACCCCG	AGGAGCTGGT	GCTGCTCGGA	CACTCTCTGG	GCATCCCCTG	GGCTCCCCTG	780
AGCTCCTGCC	CCAGCCAGGC	CCTGCAGCTG	GCAGGCTGCT	TGAGCCAACT	CCATAGCGGC	840
CTTTTCCTCT	ACCAGGGGCT	CCTGCAGGCC	CTGGAAGGGA	TATCCCCGA	GTTGGGTCCC	900
ACCTTGGACA	CACTGCAGCT	GGACGTCGCC	GACTTTGCCA	CCACCATCTG	GCAGCAGATG	960
GAAGAACTGG	GAATGGCCCC	TGCCCTGCAG	CCCTAATAA			999

## (2) INFORMATION FOR SEQ ID NO:91:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 999 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "DNA (synthetic)"

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:

ATGGCTAATG	CATCAGGTAT	TGAGGCAATT	CTTCGTAATC	TCCAACCATG	TCTGCCCTCT	60
GCCACGGCCG	CACCCTCTCG	ACATCCAATC	ATCATCAAGG	CAGGTGACTG	GCAAGAATTC	120
CGGGAAAAAC	TGACGTTCTA	TCTGGTTACC	CTTGAGCAAG	CGCAGGAACA	ACAGGGTGGT	180
GGCTCTGGCG	GTGGCAGCGG	CGGCGGTTCT	AACTGCTCTA	TAATGATCGA	TGAAATTATA	240
CATCACTTAA	AGAGACCACC	TGCACCTTTG	CTGGACCCGA	ACAACCTCAA	TGACGAAGAC	300
GTCTCTATCC	TGATGGACCG	AAACCTTCGA	CTTCCAAACC	TGGAGAGCTT	CGTAAGGGCT	360
GTCAAGAACT	TAGAATACGT	AGAGGGCGGT	GGAGGCTCCC	CGGGTGAACC	GTCTGGTCCA	420
ATCTCTACTA	TCAACCCGTC	TCCTCCGTCT	AAAGAATCTC	ATAAATCTCC	AAACATGGCT	480
ACCCAGGGTG	CCATGCCGGC	CTTCGCCTCT	GCTTTCCAGC	GCCGGGCAGG	AGGGGTCCTG	540
GTTGCTAGCC	ATCTGCAGAG	CTTCCTGGAG	GTGTCGTACC	GCGTTCTACG	CCACCTTGCG	600

CAGCCCTCTG	GCGGCTCTGG	CGGCTCTCAG	AGCTTCCTGC	TCAAGTCTTT	AGAGCAAGTG	660
AGAAAGATCC	AGGGCGATGG	CGCAGCGCTC	CAGGAGAAGC	TGTGTGCCAC	CTACAAGCTG	720
TGCCACCCCG	AGGAGCTGGT	GCTGCTCGGA	CACTCTCTGG	GCATCCCCTG	GGCTCCCCTG	780
AGCTCCTGCC	CCAGCCAGGC	CCTGCAGCTG	GCAGGCTGCT	TGAGCCAACT	CCATAGCGGC	840
CTTTTCCTCT	ACCAGGGGCT	CCTGCAGGCC	CTGGAAGGGA	TATCCCCGA	GTTGGGTCCC	900
ACCTTGGACA	CACTGCAGCT	GGACGTCGCC	GACTTTGCCA	CCACCATCTG	GCAGCAGATG	960
GAAGAACTGG	GAATGGCCCC	TGCCCTGCAG	CCCTAATAA			999

#### (2) INFORMATION FOR SEQ ID NO:92:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 999 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "DNA (synthetic)"

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:

ATGGCTGCAC	CCTCTCGACA	TCCAATCATC	ATCAAGGCAG	GTGACTGGCA	AGAATTCCGG	60
GAAAAACTGA	CGTTCTATCT	GGTTACCCTT	GAGCAAGCGC	AGGAACAACA	GGGTGGTGGC	120
TCTGGCGGTG	GCAGCGGCGG	CGGTTCTAAC	TGCTCTATAA	TGATCGATGA	AATTATACAT	180
CACTTAAAGA	GACCACCTGC	ACCTTTGCTG	GACCCGAACA	ACCTCAATGA	CGAAGACGTC	240
TCTATCCTGA	TGGACCGAAA	CCTTCGACTT	CCAAACCTGG	AGAGCTTCGT	AAGGGCTGTC	300
AAGAACTTAG	AAAATGCATC	AGGTATTGAG	GCAATTCTTC	GTAATCTCCA	ACCATGTCTG	360
CCCTCTGCCA	CGGCCTACGT	AGAGGGCGGT	GGAGGCTCCC	CGGGTGAACC	GTCTGGTCCA	420
ATCTCTACTA	TCAACCCGTC	TCCTCCGTCT	AAAGAATCTC	ATAAATCTCC	AAACATGGCT	480
ACCCAGGGTG	CCATGCCGGC	CTTCGCCTCT	GCTTTCCAGC	GCCGGGCAGG	AGGGGTCCTG	540
GTTGCTAGCC	ATCTGCAGAG	CTTCCTGGAG	GTGTCGTACC	GCGTTCTACG	CCACCTTGCG	600
CAGCCCTCTG	GCGGCTCTGG	CGGCTCTCAG	AGCTTCCTGC	TCAAGTCTTT	AGAGCAAGTG	660
AGAAAGATCC	AGGGCGATGG	CGCAGCGCTC	CAGGAGAAGC	TGTGTGCCAC	CTACAAGCTG	720
TGCCACCCG	AGGAGCTGGT	GCTGCTCGGA	CACTCTCTGG	GCATCCCCTG	GGCTCCCCTG	780

AGCTCCTGCC	CCAGCCAGGC	CCTGCAGCTG	GCAGGCTGCT	TGAGCCAACT	CCATAGCGGC	840
CTTTTCCTCT	ACCAGGGGCT	CCTGCAGGCC	CTGGAAGGGA	TATCCCCGA	GTTGGGTCCC	900
ACCTTGGACA	CACTGCAGCT	GGACGTCGCC	GACTTTGCCA	CCACCATCTG	GCAGCAGATG	960
GAAGAACTGG	GAATGGCCCC	TGCCCTGCAG	CCCTAATAA			999

## (2) INFORMATION FOR SEQ ID NO:93:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 999 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "DNA (synthetic)"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:

ATGGCTGCAG	GTGACTGGCA	AGAATTCCGG	GAAAAACTGA	CGTTCTATCT	GGTTACCCTT	60
GAGCAAGCGC	AGGAACAACA	GGGTGGTGGC	TCTGGCGGTG	GCAGCGGCGG	CGGTTCTAAC	120
TGCTCTATAA	TGATCGATGA	AATTATACAT	CACTTAAAGA	GACCACCTGC	ACCTTTGCTG	180
GACCCGAACA	ACCTCAATGA	CGAAGACGTC	TCTATCCTGA	TGGACCGAAA	CCTTCGACTT	240
CCAAACCTGG	AGAGCTTCGT	AAGGGCTGTC	AAGAACTTAG	AAAATGCATC	AGGTATTGAG	300
GCAATTCTTC	GTAATCTCCA	ACCATGTCTG	CCCTCTGCCA	CGGCCGCACC	CTCTCGACAT	360
CCAATCATCA	TCAAGTACGT	AGAGGGCGGT	GGAGGCTCCC	CGGGTGAACC	GTCTGGTCCA	420
ATCTCTACTA	TCAACCCGTC	TCCTCCGTCT	AAAGAATCTC	ATAAATCTCC	AAACATGGCT	480
ACCCAGGGTG	CCATGCCGGC	CTTCGCCTCT	GCTTTCCAGC	GCCGGGCAGG	AGGGGTCCTG	540
GTTGCTAGCC	ATCTGCAGAG	CTTCCTGGAG	GTGTCGTACC	GCGTTCTACG	CCACCTTGCG	600
CAGCCCTCTG	GCGGCTCTGG	CGGCTCTCAG	AGCTTCCTGC	TCAAGTCTTT	AGAGCAAGTG	660
AGAAAGATCC	AGGGCGATGG	CGCAGCGCTC	CAGGAGAAGC	TGTGTGCCAC	CTACAAGCTG	720
TGCCACCCCG	AGGAGCTGGT	GCTGCTCGGA	CACTCTCTGG	GCATCCCCTG	GGCTCCCCTG	780
AGCTCCTGCC	CCAGCCAGGC	CCTGCAGCTG	GCAGGCTGCT	TGAGCCAACT	CCATAGCGGC	840
CTTTTCCTCT	ACCAGGGGCT	CCTGCAGGCC	CTGGAAGGGA	TATCCCCGA	GTTGGGTCCC	900
ACCTTGGACA	CACTGCAGCT	GGACGTCGCC	GACTTTGCCA	CCACCATCTG	GCAGCAGATG	960

#### (2) INFORMATION FOR SEQ ID NO:94:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 918 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "DNA (synthetic)"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	GTGGTTCTGG	CGGCGGCTCC	AACATGGCTT	ACAAGCTGTG	CCACCCGAG	420
GAGCTGGTGC	TGCTCGGACA	CTCTCTGGGC	ATCCCCTGGG	CTCCCCTGAG	CTCCTGCCCC	480
AGCCAGGCCC	TGCAGCTGGC	AGGCTGCTTG	AGCCAACTCC	ATAGCGGCCT	TTTCCTCTAC	540
CAGGGGCTCC	TGCAGGCCCT	GGAAGGGATA	TCCCCGAGT	TGGGTCCCAC	CTTGGACACA	600
CTGCAGCTGG	ACGTCGCCGA	CTTTGCCACC	ACCATCTGGC	AGCAGATGGA	AGAACTGGGA	660
ATGGCCCCTG	CCCTGCAGCC	CACCCAGGGT	GCCATGCCGG	CCTTCGCCTC	TGCTTTCCAG	720
CGCCGGGCAG	GAGGGGTCCT	GGTTGCTAGC	CATCTGCAGA	GCTTCCTGGA	GGTGTCGTAC	780
CGCGTTCTAC	GCCACCTTGC	GCAGCCCTCT	GGCGGCTCTG	GCGGCTCTCA	GAGCTTCCTG	840
CTCAAGTCTT	TAGAGCAAGT	GAGAAAGATC	CAGGGCGATG	GCGCAGCGCT	CCAGGAGAAG	900
CTGTGTGCCA	CCTAATAA					918

## (2) INFORMATION FOR SEQ ID NO:95:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 963 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "DNA (synthetic)"

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTTACAAG	CTGTGCCACC	CCGAGGAGCT	GGTGCTGCTC	480
GGACACTCTC	TGGGCATCCC	CTGGGCTCCC	CTGAGCTCCT	GCCCCAGCCA	GGCCCTGCAG	540
CTGGCAGGCT	GCTTGAGCCA	ACTCCATAGC	GGCCTTTTCC	TCTACCAGGG	GCTCCTGCAG	600
GCCCTGGAAG	GGATATCCCC	CGAGTTGGGT	CCCACCTTGG	ACACACTGCA	GCTGGACGTC	660
GCCGACTTTG	CCACCACCAT	CTGGCAGCAG	ATGGAAGAAC	TGGGAATGGC	CCCTGCCCTG	720
CAGCCCACCC	AGGGTGCCAT	GCCGGCCTTC	GCCTCTGCTT	TCCAGCGCCG	GGCAGGAGGG	780
GTCCTGGTTG	CTAGCCATCT	GCAGAGCTTC	CTGGAGGTGT	CGTACCGCGT	TCTACGCCAC	840
CTTGCGCAGC	CCTCTGGCGG	CTCTGGCGGC	TCTCAGAGCT	TCCTGCTCAA	GTCTTTAGAG	900
CAAGTGAGAA	AGATCCAGGG	CGATGGCGCA	GCGCTCCAGG	AGAAGCTGTG	TGCCACCTAA	960
TAA						963

## (2) INFORMATION FOR SEQ ID NO:96:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 918 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "DNA (synthetic)"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	GTGGTTCTGG	CGGCGGCTCC	AACATGGCTC	CCGAGTTGGG	TCCCACCTTG	420
GACACACTGC	AGCTGGACGT	CGCCGACTTT	GCCACCACCA	TCTGGCAGCA	GATGGAAGAA	480
CTGGGAATGG	CCCCTGCCCT	GCAGCCCACC	CAGGGTGCCA	TGCCGGCCTT	CGCCTCTGCT	540
TTCCAGCGCC	GGGCAGGAGG	GGTCCTGGTT	GCTAGCCATC	TGCAGAGCTT	CCTGGAGGTG	600
TCGTACCGCG	TTCTACGCCA	CCTTGCGCAG	CCCTCTGGCG	GCTCTGGCGG	CTCTCAGAGC	660
TTCCTGCTCA	AGTCTTTAGA	GCAAGTGAGA	AAGATCCAGG	GCGATGGCGC	AGCGCTCCAG	720
GAGAAGCTGT	GTGCCACCTA	CAAGCTGTGC	CACCCGAGG	AGCTGGTGCT	GCTCGGACAC	780
TCTCTGGGCA	TCCCCTGGGC	TCCCCTGAGC	TCCTGCCCCA	GCCAGGCCCT	GCAGCTGGCA	840
GGCTGCTTGA	GCCAACTCCA	TAGCGGCCTT	TTCCTCTACC	AGGGGCTCCT	GCAGGCCCTG	900
GAAGGGATAT	CCTAATAA					918

#### (2) INFORMATION FOR SEQ ID NO:97:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 963 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "DNA (synthetic)"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:

ATGGCTAACT GCTCTATAAT GATCGATGAA ATTATACATC ACTTAAAGAG ACCACCTGCA 60

CCTTTGCTGG ACCCGAACAA CCTCAATGAC GAAGACGTCT CTATCCTGAT GGACCGAAAC 120

CTTCGACTTC CAAACCTGGA GAGCTTCGTA AGGGCTGTCA AGAACTTAGA AAATGCATCA 180

GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTCCCGAG	TTGGGTCCCA	CCTTGGACAC	ACTGCAGCTG	480
GACGTCGCCG	ACTTTGCCAC	CACCATCTGG	CAGCAGATGG	AAGAACTGGG	AATGGCCCCT	540
GCCCTGCAGC	CCACCCAGGG	TGCCATGCCG	GCCTTCGCCT	CTGCTTTCCA	GCGCCGGGCA	600
GGAGGGGTCC	TGGTTGCTAG	CCATCTGCAG	AGCTTCCTGG	AGGTGTCGTA	CCGCGTTCTA	660
CGCCACCTTG	CGCAGCCCTC	TGGCGGCTCT	GGCGGCTCTC	AGAGCTTCCT	GCTCAAGTCT	720
TTAGAGCAAG	TGAGAAAGAT	CCAGGGCGAT	GGCGCAGCGC	TCCAGGAGAA	GCTGTGTGCC	780
ACCTACAAGC	TGTGCCACCC	CGAGGAGCTG	GTGCTGCTCG	GACACTCTCT	GGGCATCCCC	840
TGGGCTCCCC	TGAGCTCCTG	CCCCAGCCAG	GCCCTGCAGC	TGGCAGGCTG	CTTGAGCCAA	900
CTCCATAGCG	GCCTTTTCCT	CTACCAGGGG	CTCCTGCAGG	CCCTGGAAGG	GATATCCTAA	960
TAA						963

## (2) INFORMATION FOR SEQ ID NO:98:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 918 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "DNA (synthetic)"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	GTGGTTCTGG	CGGCGGCTCC	AACATGGCTA	TGGCCCCTGC	CCTGCAGCCC	420

ACCCAGGGTG	CCATGCCGGC	CTTCGCCTCT	GCTTTCCAGC	GCCGGGCAGG	AGGGGTCCTG	480
GTTGCTAGCC	ATCTGCAGAG	CTTCCTGGAG	GTGTCGTACC	GCGTTCTACG	CCACCTTGCG	540
CAGCCCTCTG	GCGGCTCTGG	CGGCTCTCAG	AGCTTCCTGC	TCAAGTCTTT	AGAGCAAGTG	600
AGAAAGATCC	AGGGCGATGG	CGCAGCGCTC	CAGGAGAAGC	TGTGTGCCAC	CTACAAGCTG	660
TGCCACCCCG	AGGAGCTGGT	GCTGCTCGGA	CACTCTCTGG	GCATCCCCTG	GGCTCCCCTG	720
AGCTCCTGCC	CCAGCCAGGC	CCTGCAGCTG	GCAGGCTGCT	TGAGCCAACT	CCATAGCGGC	780
СТТТТССТСТ	ACCAGGGGCT	CCTGCAGGCC	CTGGAAGGGA	TATCCCCGA	GTTGGGTCCC	840
ACCTTGGACA	CACTGCAGCT	GGACGTCGCC	GACTTTGCCA	CCACCATCTG	GCAGCAGATG	900
GAAGAACTGG	GATAATAA					918

## (2) INFORMATION FOR SEQ ID NO:99:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 963 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "DNA (synthetic)"

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTATGGCC	CCTGCCCTGC	AGCCCACCCA	GGGTGCCATG	480
CCGGCCTTCG	CCTCTGCTTT	CCAGCGCCGG	GCAGGAGGGG	TCCTGGTTGC	TAGCCATCTG	540
CAGAGCTTCC	TGGAGGTGTC	GTACCGCGTT	CTACGCCACC	TTGCGCAGCC	CTCTGGCGGC	600
TCTGGCGGCT	CTCAGAGCTT	CCTGCTCAAG	TCTTTAGAGC	AAGTGAGAAA	GATCCAGGGC	660

GATGGCGCAG	CGCTCCAGGA	GAAGCTGTGT	GCCACCTACA	AGCTGTGCCA	CCCCGAGGAG	720
CTGGTGCTGC	TCGGACACTC	TCTGGGCATC	CCCTGGGCTC	CCCTGAGCTC	CTGCCCCAGC	780
CAGGCCCTGC	AGCTGGCAGG	CTGCTTGAGC	CAACTCCATA	GCGGCCTTTT	CCTCTACCAG	840
GGGCTCCTGC	AGGCCCTGGA	AGGGATATCC	CCCGAGTTGG	GTCCCACCTT	GGACACACTG	900
CAGCTGGACG	TCGCCGACTT	TGCCACCACC	ATCTGGCAGC	AGATGGAAGA	ACTGGGATAA	960
TAA						963

#### (2) INFORMATION FOR SEQ ID NO:100:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 918 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "DNA (synthetic)"

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:100:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360.
TCCCCGGGTG	GTGGTTCTGG	CGGCGGCTCC	AACATGGCTA	CCCAGGGTGC	CATGCCGGCC	420
TTCGCCTCTG	CTTTCCAGCG	CCGGGCAGGA	GGGGTCCTGG	TTGCTAGCCA	TCTGCAGAGC	480
TTCCTGGAGG	TGTCGTACCG	CGTTCTACGC	CACCTTGCGC	AGCCCTCTGG	CGGCTCTGGC	540
GGCTCTCAGA	GCTTCCTGCT	CAAGTCTTTA	GAGCAAGTGA	GAAAGATCCA	GGGCGATGGC	600
GCAGCGCTCC	AGGAGAAGCT	GTGTGCCACC	TACAAGCTGT	GCCACCCCGA	GGAGCTGGTG	660
CTGCTCGGAC	ACTCTCTGGG	CATCCCCTGG	GCTCCCCTGA	GCTCCTGCCC	CAGCCAGGCC	720
CTGCAGCTGG	CAGGCTGCTT	GAGCCAACTC	CATAGCGGCC	TTTTCCTCTA	CCAGGGGCTC	780
CTGCAGGCCC	TGGAAGGGAT	ATCCCCGAG	TTGGGTCCCA	CCTTGGACAC	ACTGCAGCTG	840
GACGTCGCCG	ACTTTGCCAC	CACCATCTGG	CAGCAGATGG	AAGAACTGGG	AATGGCCCCT	900

GCCCTGCAGC CCTAATAA 918

## (2) INFORMATION FOR SEQ ID NO:101:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 963 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "DNA (synthetic)"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:101:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTACCCAG	GGTGCCATGC	CGGCCTTCGC	CTCTGCTTTC	480
CAGCGCCGGG	CAGGAGGGGT	CCTGGTTGCT	AGCCATCTGC	AGAGCTTCCT	GGAGGTGTCG	540
TACCGCGTTC	TACGCCACCT	TGCGCAGCCC	TCTGGCGGCT	CTGGCGGCTC	TCAGAGCTTC	600
CTGCTCAAGT	CTTTAGAGCA	AGTGAGAAAG	ATCCAGGGCG	ATGGCGCAGC	GCTCCAGGAG	660
AAGCTGTGTG	CCACCTACAA	GCTGTGCCAC	CCCGAGGAGC	TGGTGCTGCT	CGGACACTCT	720
CTGGGCATCC	CCTGGGCTCC	CCTGAGCTCC	TGCCCCAGCC	AGGCCCTGCA	GCTGGCAGGC	780
TGCTTGAGCC	AACTCCATAG	CGGCCTTTTC	CTCTACCAGG	GGCTCCTGCA	GGCCCTGGAA	840
GGGATATCCC	CCGAGTTGGG	TCCCACCTTG	GACACACTGC	AGCTGGACGT	CGCCGACTTT	900
GCCACCACCA	TCTGGCAGCA	GATGGAAGAA	CTGGGAATGG	CCCCTGCCCT	GCAGCCCTAA	960
TAA						963

#### (2) INFORMATION FOR SEQ ID NO:102:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 918 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "DNA (synthetic)"

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:102:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	GTGGTTCTGG	CGGCGGCTCC	AACATGGCTT	CTGCTTTCCA	GCGCCGGGCA	420
GGAGGGGTCC	TGGTTGCTAG	CCATCTGCAG	AGCTTCCTGG	AGGTGTCGTA	CCGCGTTCTA	480
CGCCACCTTG	CGCAGCCCTC	TGGCGGCTCT	GGCGGCTCTC	AGAGCTTCCT	GCTCAAGTCT	540
TTAGAGCAAG	TGAGAAAGAT	CCAGGGCGAT	GGCGCAGCGC	TCCAGGAGAA	GCTGTGTGCC	600
ACCTACAAGC	TGTGCCACCC	CGAGGAGCTG	GTGCTGCTCG	GACACTCTCT	GGGCATCCCC	660
TGGGCTCCCC	TGAGCTCCTG	CCCCAGCCAG	GCCCTGCAGC	TGGCAGGCTG	CTTGAGCCAA	720
CTCCATAGCG	GCCTTTTCCT	CTACCAGGGG	CTCCTGCAGG	CCCTGGAAGG	GATATCCCCC	780
GAGTTGGGTC	CCACCTTGGA	CACACTGCAG	CTGGACGTCG	CCGACTTTGC	CACCACCATC	840
TGGCAGCAGA	TGGAAGAACT	GGGAATGGCC	CCTGCCCTGC	AGCCCACCCA	GGGTGCCATG	900
CCGGCCTTCG	CCTAATAA					918

#### (2) INFORMATION FOR SEQ ID NO:103:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 963 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "SYNTHETIC"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:103:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTTCTGCT	TTCCAGCGCC	GGGCAGGAGG	GGTCCTGGTT	480
GCTAGCCATC	TGCAGAGCTT	CCTGGAGGTG	TCGTACCGCG	TTCTACGCCA	CCTTGCGCAG	540
CCCTCTGGCG	GCTCTGGCGG	CTCTCAGAGC	TTCCTGCTCA	AGTCTTTAGA	GCAAGTGAGA	600
AAGATCCAGG	GCGATGGCGC	AGCGCTCCAG	GAGAAGCTGT	GTGCCACCTA	CAAGCTGTGC	660
CACCCGAGG	AGCTGGTGCT	GCTCGGACAC	TCTCTGGGCA	TCCCCTGGGC	TCCCCTGAGC	720
TCCTGCCCCA	GCCAGGCCCT	GCAGCTGGCA	GGCTGCTTGA	GCCAACTCCA	TAGCGGCCTT	780
TTCCTCTACC	AGGGGCTCCT	GCAGGCCCTG	GAAGGGATAT	CCCCGAGTT	GGGTCCCACC	840
TTGGACACAC	TGCAGCTGGA	CGTCGCCGAC	TTTGCCACCA	CCATCTGGCA	GCAGATGGAA	900
GAACTGGGAA	TGGCCCCTGC	CCTGCAGCCC	ACCCAGGGTG	CCATGCCGGC	CTTCGCCTAA	960
TAA						963

#### (2) INFORMATION FOR SEQ ID NO:104:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 927 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "DNA (synthetic)"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:104:

CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	GTGGTTCTGG	CGGCGGCTCC	AACATGGCTT	ACAAGCTGTG	CCACCCGAG	420
GAGCTGGTGC	TGCTCGGACA	CTCTCTGGGC	ATCCCCTGGG	CTCCCCTGAG	CTCCTGCCCC	480
AGCCAGGCCC	TGCAGCTGGC	AGGCTGCTTG	AGCCAACTCC	ATAGCGGCCT	TTTCCTCTAC	540
CAGGGGCTCC	TGCAGGCCCT	GGAAGGGATA	TCCCCGAGT	TGGGTCCCAC	CTTGGACACA	600
CTGCAGCTGG	ACGTCGCCGA	CTTTGCCACC	ACCATCTGGC	AGCAGATGGA	AGAACTGGGA	660
ATGGCCCCTG	CCCTGCAGCC	CACCCAGGGT	GCCATGCCGG	CCTTCGCCTC	TGCTTTCCAG	720
CGCCGGGCAG	GAGGGGTCCT	GGTTGCTAGC	CATCTGCAGA	GCTTCCTGGA	GGTGTCGTAC	780
CGCGTTCTAC	GCCACCTTGC	GCAGCCCACA	CCATTGGGCC	CTGCCAGCTC	CCTGCCCCAG	840
AGCTTCCTGC	TCAAGTCTTT	AGAGCAAGTG	AGAAAGATCC	AGGGCGATGG	CGCAGCGCTC	900
CAGGAGAAGC	TGTGTGCCAC	CTAATAA				927

## (2) INFORMATION FOR SEQ ID NO:105:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 972 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "DNA (synthetic)"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360

TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTTACAAG	CTGTGCCACC	CCGAGGAGCT	GGTGCTGCTC	480
GGACACTCTC	TGGGCATCCC	CTGGGCTCCC	CTGAGCTCCT	GCCCCAGCCA	GGCCCTGCAG	540
CTGGCAGGCT	GCTTGAGCCA	ACTCCATAGC	GGCCTTTTCC	TCTACCAGGG	GCTCCTGCAG	600
GCCCTGGAAG	GGATATCCCC	CGAGTTGGGT	CCCACCTTGG	ACACACTGCA	GCTGGACGTC	660
GCCGACTTTG	CCACCACCAT	CTGGCAGCAG	ATGGAAGAAC	TGGGAATGGC	CCCTGCCCTG	720
CAGCCCACCC	AGGGTGCCAT	GCCGGCCTTC	GCCTCTGCTT	TCCAGCGCCG	GGCAGGAGGG	780
GTCCTGGTTG	CTAGCCATCT	GCAGAGCTTC	CTGGAGGTGT	CGTACCGCGT	TCTACGCCAC	840
CTTGCGCAGC	CCACACCATT	GGGCCCTGCC	AGCTCCCTGC	CCCAGAGCTT	CCTGCTCAAG	900
TCTTTAGAGC	AAGTGAGAAA	GATCCAGGGC	GATGGCGCAG	CGCTCCAGGA	GAAGCTGTGT	960
GCCACCTAAT	AA					972

## (2) INFORMATION FOR SEQ ID NO:106:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 927 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "DNA (synthetic)"

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	GTGGTTCTGG	CGGCGGCTCC	AACATGGCTC	CCGAGTTGGG	TCCCACCTTG	420
GACACACTGC	AGCTGGACGT	CGCCGACTTT	GCCACCACCA	TCTGGCAGCA	GATGGAAGAA	480
CTGGGAATGG	CCCCTGCCCT	GCAGCCCACC	CAGGGTGCCA	TGCCGGCCTT	CGCCTCTGCT	540

TTCCAGCGCC	GGGCAGGAGG	GGTCCTGGTT	GCTAGCCATC	TGCAGAGCTT	CCTGGAGGTG	600
TCGTACCGCG	TTCTACGCCA	CCTTGCGCAG	CCCACACCAT	TGGGCCCTGC	CAGCTCCCTG	660
CCCCAGAGCT	TCCTGCTCAA	GTCTTTAGAG	CAAGTGAGAA	AGATCCAGGG	CGATGGCGCA	720
GCGCTCCAGG	AGAAGCTGTG	TGCCACCTAC	AAGCTGTGCC	ACCCCGAGGA	GCTGGTGCTG	780
CTCGGACACT	CTCTGGGCAT	CCCCTGGGCT	CCCCTGAGCT	CCTGCCCCAG	CCAGGCCCTG	840
CAGCTGGCAG	GCTGCTTGAG	CCAACTCCAT	AGCGGCCTTT	TCCTCTACCA	GGGGCTCCTG	900
CAGGCCCTGG	AAGGGATATC	CTAATAA				927

## (2) INFORMATION FOR SEQ ID NO:107:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 972 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "DNA (synthetic)"

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTCCCGAG	TTGGGTCCCA	CCTTGGACAC	ACTGCAGCTG	480
GACGTCGCCG	ACTTTGCCAC	CACCATCTGG	CAGCAGATGG	AAGAACTGGG	AATGGCCCCT	540
GCCCTGCAGC	CCACCCAGGG	TGCCATGCCG	GCCTTCGCCT	CTGCTTTCCA	GCGCCGGGCA	600
GGAGGGGTCC	TGGTTGCTAG	CCATCTGCAG	AGCTTCCTGG	AGGTGTCGTA	CCGCGTTCTA	660
CGCCACCTTG	CGCAGCCCAC	ACCATTGGGC	CCTGCCAGCT	CCCTGCCCCA	GAGCTTCCTG	720
CTCAAGTCTT	TAGAGCAAGT	GAGAAAGATC	CAGGGCGATG	GCGCAGCGCT	CCAGGAGAAG	780

CTGTGTGCCA	CCTACAAGCT	GTGCCACCCC	GAGGAGCTGG	TGCTGCTCGG	ACACTCTCTG	840
GGCATCCCCT	GGGCTCCCCT	GAGCTCCTGC	CCCAGCCAGG	CCCTGCAGCT	GGCAGGCTGC	900
TTGAGCCAAC	TCCATAGCGG	CCTTTTCCTC	TACCAGGGGC	TCCTGCAGGC	CCTGGAAGGG	960
ATATCCTAAT	AA					972

## (2) INFORMATION FOR SEQ ID NO:108:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 927 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

# (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "DNA (synthetic)"

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	GTGGTTCTGG	CGGCGGCTCC	AACATGGCTA	TGGCCCCTGC	CCTGCAGCCC	420
ACCCAGGGTG	CCATGCCGGC	CTTCGCCTCT	GCTTTCCAGC	GCCGGGCAGG	AGGGGTCCTG	480
GTTGCTAGCC	ATCTGCAGAG	CTTCCTGGAG	GTGTCGTACC	GCGTTCTACG	CCACCTTGCG	540
CAGCCCACAC	CATTGGGCCC	TGCCAGCTCC	CTGCCCCAGA	GCTTCCTGCT	CAAGTCTTTA	600
GAGCAAGTGA	GAAAGATCCA	GGGCGATGGC	GCAGCGCTCC	AGGAGAAGCT	GTGTGCCACC	660
TACAAGCTGT	GCCACCCCGA	GGAGCTGGTG	CTGCTCGGAC	ACTCTCTGGG	CATCCCCTGG	720
GCTCCCCTGA	GCTCCTGCCC	CAGCCAGGCC	CTGCAGCTGG	CAGGCTGCTT	GAGCCAACTC	780
CATAGCGGCC	TTTTCCTCTA	CCAGGGGCTC	CTGCAGGCCC	TGGAAGGGAT	ATCCCCGAG	840
TTGGGTCCCA	CCTTGGACAC	ACTGCAGCTG	GACGTCGCCG	ACTTTGCCAC	CACCATCTGG	900
CAGCAGATGG	AAGAACTGGG	ATAATAA				927

#### (2) INFORMATION FOR SEQ ID NO:109:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 972 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "DNA (synthetic)"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:

ATG	GCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCT	TTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTT	CGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGT	ATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCT	CGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTC	TATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCC	CCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCT	CATAAAT	CTCCAAACAT	GGCTATGGCC	CCTGCCCTGC	AGCCCACCCA	GGGTGCCATG	480
CCG	GCCTTCG	CCTCTGCTTT	CCAGCGCCGG	GCAGGAGGGG	TCCTGGTTGC	TAGCCATCTG	540
CAG	AGCTTCC	TGGAGGTGTC	GTACCGCGTT	CTACGCCACC	TTGCGCAGCC	CACACCATTG	600
GGC	CCTGCCA	GCTCCCTGCC	CCAGAGCTTC	CTGCTCAAGT	CTTTAGAGCA	AGTGAGAAAG	660
ATC	CAGGGCG	ATGGCGCAGC	GCTCCAGGAG	AAGCTGTGTG	CCACCTACAA	GCTGTGCCAC	720
CCC	GAGGAGC	TGGTGCTGCT	CGGACACTCT	CTGGGCATCC	CCTGGGCTCC	CCTGAGCTCC	780
TGC	CCCAGCC	AGGCCCTGCA	GCTGGCAGGC	TGCTTGAGCC	AACTCCATAG	CGGCCTTTTC	840
CTC	TACCAGG	GGCTCCTGCA	GGCCCTGGAA	GGGATATCCC	CCGAGTTGGG	TCCCACCTTG	900
GAC	ACACTGC	AGCTGGACGT	CGCCGACTTT	GCCACCACCA	TCTGGCAGCA	GATGGAAGAA	960
CTG	GGATAAT	AA					972

## (2) INFORMATION FOR SEQ ID NO:110:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 927 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

### (ii) MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	GTGGTTCTGG	CGGCGGCTCC	AACATGGCTA	CCCAGGGTGC	CATGCCGGCC	420
TTCGCCTCTG	CTTTCCAGCG	CCGGGCAGGA	GGGGTCCTGG	TTGCTAGCCA	TCTGCAGAGC	480
TTCCTGGAGG	TGTCGTACCG	CGTTCTACGC	CACCTTGCGC	AGCCCACACC	ATTGGGCCCT	540
GCCAGCTCCC	TGCCCCAGAG	CTTCCTGCTC	AAGTCTTTAG	AGCAAGTGAG	AAAGATCCAG	600
GGCGATGGCG	CAGCGCTCCA	GGAGAAGCTG	TGTGCCACCT	ACAAGCTGTG	CCACCCGAG	660
GAGCTGGTGC	TGCTCGGACA	CTCTCTGGGC	ATCCCCTGGG	CTCCCCTGAG	CTCCTGCCCC	720
AGCCAGGCCC	TGCAGCTGGC	AGGCTGCTTG	AGCCAACTCC	ATAGCGGCCT	TTTCCTCTAC	780
CAGGGGCTCC	TGCAGGCCCT	GGAAGGGATA	TCCCCGAGT	TGGGTCCCAC	CTTGGACACA	840
CTGCAGCTGG	ACGTCGCCGA	CTTTGCCACC	ACCATCTGGC	AGCAGATGGA	AGAACTGGGA	900
ATGGCCCCTG	CCCTGCAGCC	СТААТАА				927

### (2) INFORMATION FOR SEQ ID NO:111:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 972 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:111:

CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTACCCAG	GGTGCCATGC	CGGCCTTCGC	CTCTGCTTTC	480
CAGCGCCGGG	CAGGAGGGGT	CCTGGTTGCT	AGCCATCTGC	AGAGCTTCCT	GGAGGTGTCG	540
TACCGCGTTC	TACGCCACCT	TGCGCAGCCC	ACACCATTGG	GCCCTGCCAG	CTCCCTGCCC	600
CAGAGCTTCC	TGCTCAAGTC	TTTAGAGCAA	GTGAGAAAGA	TCCAGGGCGA	TGGCGCAGCG	660
CTCCAGGAGA	AGCTGTGTGC	CACCTACAAG	CTGTGCCACC	CCGAGGAGCT	GGTGCTGCTC	720
GGACACTCTC	TGGGCATCCC	CTGGGCTCCC	CTGAGCTCCT	GCCCCAGCCA	GGCCCTGCAG	780
CTGGCAGGCT	GCTTGAGCCA	ACTCCATAGC	GGCCTTTTCC	TCTACCAGGG	GCTCCTGCAG	840
GCCCTGGAAG	GGATATCCCC	CGAGTTGGGT	CCCACCTTGG	ACACACTGCA	GCTGGACGTC	900
GCCGACTTTG	CCACCACCAT	CTGGCAGCAG	ATGGAAGAAC	TGGGAATGGC	CCCTGCCCTG	960
CAGCCCTAAT	AA					972

# (2) INFORMATION FOR SEQ ID NO:112:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 927 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:112:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240

TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	GTGGTTCTGG	CGGCGGCTCC	AACATGGCTT	CTGCTTTCCA	GCGCCGGGCA	420
GGAGGGGTCC	TGGTTGCTAG	CCATCTGCAG	AGCTTCCTGG	AGGTGTCGTA	CCGCGTTCTA	480
CGCCACCTTG	CGCAGCCCAC	ACCATTGGGC	CCTGCCAGCT	CCCTGCCCCA	GAGCTTCCTG	540
CTCAAGTCTT	TAGAGCAAGT	GAGAAAGATC	CAGGGCGATG	GCGCAGCGCT	CCAGGAGAAG	600
CTGTGTGCCA	CCTACAAGCT	GTGCCACCCC	GAGGAGCTGG	TGCTGCTCGG	ACACTCTCTG	660
GGCATCCCCT	GGGCTCCCCT	GAGCTCCTGC	CCCAGCCAGG	CCCTGCAGCT	GGCAGGCTGC	720
TTGAGCCAAC	TCCATAGCGG	CCTTTTCCTC	TACCAGGGGC	TCCTGCAGGC	CCTGGAAGGG	780
ATATCCCCCG	AGTTGGGTCC	CACCTTGGAC	ACACTGCAGC	TGGACGTCGC	CGACTTTGCC	840
ACCACCATCT	GGCAGCAGAT	GGAAGAACTG	GGAATGGCCC	CTGCCCTGCA	GCCCACCCAG	900
GGTGCCATGC	CGGCCTTCGC	CTAATAA				927

# (2) INFORMATION FOR SEQ ID NO:113:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 972 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGACCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTTCTGCT	TTCCAGCGCC	GGGCAGGAGG	GGTCCTGGTT	480
GCTAGCCATC	TGCAGAGCTT	CCTGGAGGTG	TCGTACCGCG	TTCTACGCCA	CCTTGCGCAG	540

CCCACACCAT	TGGGCCCTGC	CAGCTCCCTG	CCCCAGAGCT	TCCTGCTCAA	GTCTTTAGAG	600
CAAGTGAGAA	AGATCCAGGG	CGATGGCGCA	GCGCTCCAGG	AGAAGCTGTG	TGCCACCTAC	660
AAGCTGTGCC	ACCCCGAGGA	GCTGGTGCTG	CTCGGACACT	CTCTGGGCAT	CCCCTGGGCT	720
CCCCTGAGCT	CCTGCCCCAG	CCAGGCCCTG	CAGCTGGCAG	GCTGCTTGAG	CCAACTCCAT	780
AGCGGCCTTT	TCCTCTACCA	GGGGCTCCTG	CAGGCCCTGG	AAGGGATATC	CCCCGAGTTG	840
GGTCCCACCT	TGGACACACT	GCAGCTGGAC	GTCGCCGACT	TTGCCACCAC	CATCTGGCAG	900
CAGATGGAAG	AACTGGGAAT	GGCCCCTGCC	CTGCAGCCCA	CCCAGGGTGC	CATGCCGGCC	960
TTCGCCTAAT	AA					972

# (2) INFORMATION FOR SEQ ID NO:114:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 963 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:114:

ATGGCTAACT GCTCTAACAT GATCGATGAA ATCATCACCC ACCTGAAGCA GCCACCGCT	G 60
CCGCTGCTGG ACTTCAACAA CCTCAATGGT GAAGACCAAG ATATCCTAAT GGACAATAA	.C 120
CTTCGTCGTC CAAACCTCGA GGCATTCAAC CGTGCTGTCA AGTCTCTGCA GAATGCATC	A 180
GCAATTGAGA GCATTCTTAA AAATCTCCTG CCATGTCTGC CGCTAGCCAC GGCCGCACC	C 240
ACGCGACATC CAATCCATAT CAAGGACGGT GACTGGAATG AATTCCGTCG TAAACTGAC	C 300
TTCTATCTGA AAACCTTGGA GAACGCGCAG GCTCAACAGT ACGTAGAGGG CGGTGGAGG	C 360
TCCCCGGGTG AACCGTCTGG TCCAATCTCT ACTATCAACC CGTCTCCTCC GTCTAAAGA	.A 420
TCTCATAAAT CTCCAAACAT GGCTACCCAG GGTGCCATGC CGGCCTTCGC CTCTGCTTT	C 480
CAGCGCCGGG CAGGAGGGGT CCTGGTTGCT AGCCATCTGC AGAGCTTCCT GGAGGTGTC	G 540
TACCGCGTTC TACGCCACCT TGCGCAGCCC TCTGGCGGCT CTGGCGGCTC TCAGAGCTT	C 600
CTGCTCAAGT CTTTAGAGCA AGTGAGAAAG ATCCAGGGCG ATGGCGCAGC GCTCCAGGA	.G 660
AAGCTGTGTG CCACCTACAA GCTGTGCCAC CCCGAGGAGC TGGTGCTGCT CGGACACTC	T 720

CTGGGCATCC	CCTGGGCTCC	CCTGAGCTCC	TGCCCCAGCC	AGGCCCTGCA	GCTGGCAGGC	780
TGCTTGAGCC	AACTCCATAG	CGGCCTTTTC	CTCTACCAGG	GGCTCCTGCA	GGCCCTGGAA	840
GGGATATCCC	CCGAGTTGGG	TCCCACCTTG	GACACACTGC	AGCTGGACGT	CGCCGACTTT	900
GCCACCACCA	TCTGGCAGCA	GATGGAAGAA	CTGGGAATGG	CCCCTGCCCT	GCAGCCCTAA	960
TAA						963

# (2) INFORMATION FOR SEQ ID NO:115:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 972 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:115:

ATGGCTAACT	GCTCTAACAT	GATCGATGAA	ATCATCACCC	ACCTGAAGCA	GCCACCGCTG	60
CCGCTGCTGG	ACTTCAACAA	CCTCAATGGT	GAAGACCAAG	ATATCCTGAT	GGAAAATAAC	120
CTTCGTCGTC	CAAACCTCGA	GGCATTCAAC	CGTGCTGTCA	AGTCTCTGCA	GAATGCATCA .	180
GCAATTGAGA	GCATTCTTAA	AAATCTCCTG	CCATGTCTGC	CCCTGGCCAC	GGCCGCACCC	240
ACGCGACATC	CAATCATCAT	CCGTGACGGT	GACTGGAATG	AATTCCGTCG	TAAACTGACC	300
TTCTATCTGA	AAACCTTGGA	GAACGCGCAG	GCTCAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTACCCAG	GGTGCCATGC	CGGCCTTCGC	CTCTGCTTTC	480
CAGCGCCGGG	CAGGAGGGGT	CCTGGTTGCT	AGCCATCTGC	AGAGCTTCCT	GGAGGTGTCG	540
TACCGCGTTC	TACGCCACCT	TGCGCAGCCC	ACACCATTGG	GCCCTGCCAG	CTCCCTGCCC	600
CAGAGCTTCC	TGCTCAAGTC	TTTAGAGCAA	GTGAGAAAGA	TCCAGGGCGA	TGGCGCAGCG	660
CTCCAGGAGA	AGCTGTGTGC	CACCTACAAG	CTGTGCCACC	CCGAGGAGCT	GGTGCTGCTC	720
GGACACTCTC	TGGGCATCCC	CTGGGCTCCC	CTGAGCTCCT	GCCCCAGCCA	GGCCCTGCAG	780
CTGGCAGGCT	GCTTGAGCCA	ACTCCATAGC	GGCCTTTTCC	TCTACCAGGG	GCTCCTGCAG	840
GCCCTGGAAG	GGATATCCCC	CGAGTTGGGT	CCCACCTTGG	ACACACTGCA	GCTGGACGTC	900
GCCGACTTTG	CCACCACCAT	CTGGCAGCAG	ATGGAAGAAC	TGGGAATGGC	CCCTGCCCTG	960

CAGCCCTAAT AA 972

# (2) INFORMATION FOR SEQ ID NO:116:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 963 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:116:

ATGGCTAACT	GCTCTAACAT	GATCGATGAA	ATCATCACCC	ACCTGAAGCA	GCCACCGCTG	60
CCGCTGCTGG	ACTTCAACAA	CCTCAATGGT	GAAGACCAAG	ATATCCTGAT	GGAAAATAAC	120
CTTCGTCGTC	CAAACCTCGA	GGCATTCAAC	CGTGCTGTCA	AGTCTCTGCA	GAATGCATCA	180
GCAATTGAGA	GCATTCTTAA	AAATCTCCTG	CCATGTCTGC	CCCTGGCCAC	GGCCGCACCC	240
ACGCGACATC	CAATCATCAT	CCGTGACGGT	GACTGGAATG	AATTCCGTCG	TAAACTGACC	300
TTCTATCTGA	AAACCTTGGA	GAACGCGCAG	GCTCAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTACCCAG	GGTGCCATGC	CGGCCTTCGC	CTCTGCTTTC	480
CAGCGCCGGG	CAGGAGGGGT	CCTGGTTGCT	AGCCATCTGC	AGAGCTTCCT	GGAGGTGTCG	540
TACCGCGTTC	TACGCCACCT	TGCGCAGCCC	TCTGGCGGCT	CTGGCGGCTC	TCAGAGCTTC	600
CTGCTCAAGT	CTTTAGAGCA	AGTGAGAAAG	ATCCAGGGCG	ATGGCGCAGC	GCTCCAGGAG	660
AAGCTGTGTG	CCACCTACAA	GCTGTGCCAC	CCCGAGGAGC	TGGTGCTGCT	CGGACACTCT	720
CTGGGCATCC	CCTGGGCTCC	CCTGAGCTCC	TGCCCCAGCC	AGGCCCTGCA	GCTGGCAGGC	780
TGCTTGAGCC	AACTCCATAG	CGGCCTTTTC	CTCTACCAGG	GGCTCCTGCA	GGCCCTGGAA	840
GGGATATCCC	CCGAGTTGGG	TCCCACCTTG	GACACACTGC	AGCTGGACGT	CGCCGACTTT	900
GCCACCACCA	TCTGGCAGCA	GATGGAAGAA	CTGGGAATGG	CCCCTGCCCT	GCAGCCCTAA	960
TAA						963

#### (2) INFORMATION FOR SEQ ID NO:117:

# (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 972 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:117:

ATGGCTAACT	GCTCTAACAT	GATCGATGAA	ATCATCACCC	ACCTGAAGCA	GCCACCGCTG	60
CCGCTGCTGG	ACTTCAACAA	CCTCAATGGT	GAAGACCAAG	ATATCCTAAT	GGACAATAAC	120
CTTCGTCGTC	CAAACCTCGA	GGCATTCAAC	CGTGCTGTCA	AGTCTCTGCA	GAATGCATCA	180
GCAATTGAGA	GCATTCTTAA	AAATCTCCTG	CCATGTCTGC	CGCTAGCCAC	GGCCGCACCC	240
ACGCGACATC	CAATCCATAT	CAAGGACGGT	GACTGGAATG	AATTCCGTCG	TAAACTGACC	300
TTCTATCTGA	AAACCTTGGA	GAACGCGCAG	GCTCAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTACCCAG	GGTGCCATGC	CGGCCTTCGC	CTCTGCTTTC	480
CAGCGCCGGG	CAGGAGGGGT	CCTGGTTGCT	AGCCATCTGC	AGAGCTTCCT	GGAGGTGTCG	540
TACCGCGTTC	TACGCCACCT	TGCGCAGCCC	ACACCATTGG	GCCCTGCCAG	CTCCCTGCCC	600
CAGAGCTTCC	TGCTCAAGTC	TTTAGAGCAA	GTGAGAAAGA	TCCAGGGCGA	TGGCGCAGCG	660
CTCCAGGAGA	AGCTGTGTGC	CACCTACAAG	CTGTGCCACC	CCGAGGAGCT	GGTGCTGCTC	720
GGACACTCTC	TGGGCATCCC	CTGGGCTCCC	CTGAGCTCCT	GCCCCAGCCA	GGCCCTGCAG	780
CTGGCAGGCT	GCTTGAGCCA	ACTCCATAGC	GGCCTTTTCC	TCTACCAGGG	GCTCCTGCAG	840
GCCCTGGAAG	GGATATCCCC	CGAGTTGGGT	CCCACCTTGG	ACACACTGCA	GCTGGACGTC	900
GCCGACTTTG	CCACCACCAT	CTGGCAGCAG	ATGGAAGAAC	TGGGAATGGC	CCCTGCCCTG	960
CAGCCCTAAT	AA					972

# (2) INFORMATION FOR SEQ ID NO:118:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 918 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid

# (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGA	GGTTCACCCT	TTGCCTACAC	CTGTCCTGCT	GCCTGCTGTG	480
GACTTTAGCT	TGGGAGAATG	GAAAACCCAG	ATGGAGGAGA	CCAAGGCACA	GGACATTCTG	540
GGAGCAGTGA	CCCTTCTGCT	GGAGGGAGTG	ATGGCAGCAC	GGGGACAACT	GGGACCCACT	600
TGCCTCTCAT	CCCTCCTGGG	GCAGCTTTCT	GGACAGGTCC	GTCTCCTCCT	TGGGGCCCTG	660
CAGAGCCTCC	TTGGAACCCA	GCTTCCTCCA	CAGGGCAGGA	CCACAGCTCA	CAAGGATCCC	720
AATGCCATCT	TCCTGAGCTT	CCAACACCTG	CTCCGAGGAA	AGGTGCGTTT	CCTGATGCTT	780
GTAGGAGGGT	CCACCCTCTG	CGTCAGGGAA	TTCGGCGGCA	ACATGGCGTC	TCCCGCTCCG	840
CCTGCTTGTG	ACCTCCGAGT	CCTCAGTAAA	CTGCTTCGTG	ACTCCCATGT	CCTTCACAGC	900
AGACTGAGCC	AGTGCCCA					918

#### (2) INFORMATION FOR SEQ ID NO:119:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 918 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:119:

TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGTT	GCCTACACCT	GTCCTGCTGC	CTGCTGTGGA	CTTTAGCTTG	480
GGAGAATGGA	AAACCCAGAT	GGAGGAGACC	AAGGCACAGG	ACATTCTGGG	AGCAGTGACC	540
CTTCTGCTGG	AGGGAGTGAT	GGCAGCACGG	GGACAACTGG	GACCCACTTG	CCTCTCATCC	600
CTCCTGGGGC	AGCTTTCTGG	ACAGGTCCGT	CTCCTCCTTG	GGGCCCTGCA	GAGCCTCCTT	660
GGAACCCAGC	TTCCTCCACA	GGGCAGGACC	ACAGCTCACA	AGGATCCCAA	TGCCATCTTC	720
CTGAGCTTCC	AACACCTGCT	CCGAGGAAAG	GTGCGTTTCC	TGATGCTTGT	AGGAGGGTCC	780
ACCCTCTGCG	TCAGGGAATT	CGGCGGCAAC	ATGGCGTCTC	CCGCTCCGCC	TGCTTGTGAC	840
CTCCGAGTCC	TCAGTAAACT	GCTTCGTGAC	TCCCATGTCC	TTCACAGCAG	ACTGAGCCAG	900
TGCCCAGAGG	TTCACCCT					918

# (2) INFORMATION FOR SEQ ID NO:120:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 918 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:120:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360

CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGT	CCTGCTGCCT	GCTGTGGACT	TTAGCTTGGG	AGAATGGAAA	480
ACCCAGATGG	AGGAGACCAA	GGCACAGGAC	ATTCTGGGAG	CAGTGACCCT	TCTGCTGGAG	540
GGAGTGATGG	CAGCACGGGG	ACAACTGGGA	CCCACTTGCC	TCTCATCCCT	CCTGGGGCAG	600
CTTTCTGGAC	AGGTCCGTCT	CCTCCTTGGG	GCCCTGCAGA	GCCTCCTTGG	AACCCAGCTT	660
CCTCCACAGG	GCAGGACCAC	AGCTCACAAG	GATCCCAATG	CCATCTTCCT	GAGCTTCCAA	720
CACCTGCTCC	GAGGAAAGGT	GCGTTTCCTG	ATGCTTGTAG	GAGGGTCCAC	CCTCTGCGTC	780
AGGGAATTCG	GCGGCAACAT	GGCGTCTCCC	GCTCCGCCTG	CTTGTGACCT	CCGAGTCCTC	840
AGTAAACTGC	TTCGTGACTC	CCATGTCCTT	CACAGCAGAC	TGAGCCAGTG	CCCAGAGGTT	900
CACCCTTTGC	CTACACCT					918

# (2) INFORMATION FOR SEQ ID NO:121:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 918 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:121:

(	GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
	TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
(	CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
1	ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
(	CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
7	TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
(	CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
(	CATAAATCTC	CAAACATGGC	TGTGGACTTT	AGCTTGGGAG	AATGGAAAAC	CCAGATGGAG	480
(	GAGACCAAGG	CACAGGACAT	TCTGGGAGCA	GTGACCCTTC	TGCTGGAGGG	AGTGATGGCA	540
(	GCACGGGGAC	AACTGGGACC	CACTTGCCTC	TCATCCCTCC	TGGGGCAGCT	TTCTGGACAG	600

GTCCGTCTCC	TCCTTGGGGC	CCTGCAGAGC	CTCCTTGGAA	CCCAGCTTCC	TCCACAGGGC	660
AGGACCACAG	CTCACAAGGA	TCCCAATGCC	ATCTTCCTGA	GCTTCCAACA	CCTGCTCCGA	720
GGAAAGGTGC	GTTTCCTGAT	GCTTGTAGGA	GGGTCCACCC	TCTGCGTCAG	GGAATTCGGC	780
GGCAACATGG	CGTCTCCCGC	TCCGCCTGCT	TGTGACCTCC	GAGTCCTCAG	TAAACTGCTT	840
CGTGACTCCC	ATGTCCTTCA	CAGCAGACTG	AGCCAGTGCC	CAGAGGTTCA	CCCTTTGCCT	900
ACACCTGTCC	TGCTGCCT					918

# (2) INFORMATION FOR SEQ ID NO:122:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 918 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:

GCTAACTGCT CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC CAAACATGGA	CTTTAGCTTG	GGAGAATGGA	AAACCCAGAT	GGAGGAGACC	480
AAGGCACAGG ACATTCTGGG	AGCAGTGACC	CTTCTGCTGG	AGGGAGTGAT	GGCAGCACGG	540
GGACAACTGG GACCCACTTG	CCTCTCATCC	CTCCTGGGGC	AGCTTTCTGG	ACAGGTCCGT	600
CTCCTCCTTG GGGCCCTGCA	GAGCCTCCTT	GGAACCCAGC	TTCCTCCACA	GGGCAGGACC	660
ACAGCTCACA AGGATCCCAA	TGCCATCTTC	CTGAGCTTCC	AACACCTGCT	CCGAGGAAAG	720
GTGCGTTTCC TGATGCTTGT	AGGAGGGTCC	ACCCTCTGCG	TCAGGGAATT	CGGCGGCAAC	780
ATGGCGTCTC CCGCTCCGCC	TGCTTGTGAC	CTCCGAGTCC	TCAGTAAACT	GCTTCGTGAC	840
TCCCATGTCC TTCACAGCAG	ACTGAGCCAG	TGCCCAGAGG	TTCACCCTTT	GCCTACACCT	900

GTCCTGCTGC CTGCTGTG 918

#### (2) INFORMATION FOR SEQ ID NO:123:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 907 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

# (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:123:

GCTAACTGCT CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCGGTTAC CCTTGAGCAA	GCGCAGGAAC	AACAGTACGT	AGAGGGCGGT	GGAGGCTCCC	360
CGGGGAACCG TCTGGTCCAA	TCTCTACTAT	CAACCCGTCT	CCTCCGTCTA	AAGAATCTCA	420
TAAACTCCAA ACATGGGAGA	ATGGAAAACC	CAGATGGAGG	AGACCAAGGC	ACAGGACATT	480
CTGGAGCAGT GACCCTTCTG	CTGGAGGGAG	TGATGGCAGC	ACGGGGACAA	CTGGGACCCA	540
CTTGCTCTCA TCCCTCCTGG	GGCAGCTTTC	TGGACAGGTC	CGTCTCCTCC	TTGGGGCCCT	600
GCAGGCCTCC TTGGAACCCA	GCTTCCTCCA	CAGGGCAGGA	CCACAGCTCA	CAAGGATCCC	660
AATGCATCTT CCTGAGCTTC	CAACACCTGC	TCCGAGGAAA	GGTGCGTTTC	CTGATGCTTG	720
TAGGGGGTCC ACCCTCTGCG	TCAGGGAATT	CGGCGGCAAC	ATGGCGTCTC	CCGCTCCGCC	780
TGCTGTGACC TCCGAGTCCT	CAGTAAACTG	CTTCGTGACT	CCCATGTCCT	TCACAGCAGA	840
CTGACCAGTG CCCAGAGGTT	CACCCTTTGC	CTACACCTGT	CCTGCTGCCT	GCTGTGGACT	900
TTAGTTG					907

# (2) INFORMATION FOR SEQ ID NO:124:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 918 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single

- (D) TOPOLOGY: linear
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:124:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGG	ACCCACTTGC	CTCTCATCCC	TCCTGGGGCA	GCTTTCTGGA	480
CAGGTCCGTC	TCCTCCTTGG	GGCCCTGCAG	AGCCTCCTTG	GAACCCAGCT	TCCTCCACAG	540
GGCAGGACCA	CAGCTCACAA	GGATCCCAAT	GCCATCTTCC	TGAGCTTCCA	ACACCTGCTC	600
CGAGGAAAGG	TGCGTTTCCT	GATGCTTGTA	GGAGGGTCCA	CCCTCTGCGT	CAGGGAATTC	660
GGCGGCAACA	TGGCGTCTCC	CGCTCCGCCT	GCTTGTGACC	TCCGAGTCCT	CAGTAAACTG	720
CTTCGTGACT	CCCATGTCCT	TCACAGCAGA	CTGAGCCAGT	GCCCAGAGGT	TCACCCTTTG	780
CCTACACCTG	TCCTGCTGCC	TGCTGTGGAC	TTTAGCTTGG	GAGAATGGAA	AACCCAGATG	840
GAGGAGACCA	AGGCACAGGA	CATTCTGGGA	GCAGTGACCC	TTCTGCTGGA	GGGAGTGATG	900
GCAGCACGGG	GACAACTG					918

#### (2) INFORMATION FOR SEQ ID NO:125:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 848 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGG	AACCCAGCTT	CCTCCACAGG	GCAGGACCAC	AGCTCACAAG	480
GATCCCAATG	CCATCTTCCT	GAGCTTCCAA	CACCTGCTCC	GAGGAAAGGT	GCGTTTCCTG	540
ATGCTTGTAG	GAGGGTCCAC	CCTCTGCGTC	AGGGAATTCG	GCGGCAACAT	GGCGTCTCCC	600
GCTCCGCCTG	CTTGTGACCT	CCGAGTCCTC	AGTAAACTGC	TTCGTGACTC	CCATGTCCTT	660
CACAGCAGAC	TGAGCCAGTG	CCCAGAGGTT	CACCCTTTGC	CTACACCTGT	CCTGCTGCCT	720
GCTGTGGACT	TTAGCTTGGG	AGAATGGAAA	ACCCAGATGG	AGGAGACCAA	GGCACAGGAC	780
ATTCTGGGAG	CAGTGACCCT	TCTGCTGGAG	GGAGTGATGG	CAGCACGGGG	ACAACTGGGA	840
CCCACTTG						848

# (2) INFORMATION FOR SEQ ID NO:126:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 918 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

# (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300

TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGG	CAGGACCACA	GCTCACAAGG	ATCCCAATGC	CATCTTCCTG	480
AGCTTCCAAC	ACCTGCTCCG	AGGAAAGGTG	CGTTTCCTGA	TGCTTGTAGG	AGGGTCCACC	540
CTCTGCGTCA	GGGAATTCGG	CGGCAACATG	GCGTCTCCCG	CTCCGCCTGC	TTGTGACCTC	600
CGAGTCCTCA	GTAAACTGCT	TCGTGACTCC	CATGTCCTTC	ACAGCAGACT	GAGCCAGTGC	660
CCAGAGGTTC	ACCCTTTGCC	TACACCTGTC	CTGCTGCCTG	CTGTGGACTT	TAGCTTGGGA	720
GAATGGAAAA	CCCAGATGGA	GGAGACCAAG	GCACAGGACA	TTCTGGGAGC	AGTGACCCTT	780
CTGCTGGAGG	GAGTGATGGC	AGCACGGGGA	CAACTGGGAC	CCACTTGCCT	CTCATCCCTC	840
CTGGGGCAGC	TTTCTGGACA	GGTCCGTCTC	CTCCTTGGGG	CCCTGCAGAG	CCTCCTTGGA	900
ACCCAGCTTC	CTCCACAG					918

# (2) INFORMATION FOR SEQ ID NO:127:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 918 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

# (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:127:

GCTAACTGCT CT	ATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC CG	GAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA AC	CCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA TT	CTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA TC	CATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA CC	CCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGCCGG	TGGAGGCTCC	360
CCGGGTGAAC CG	TCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC CA	AACATGGC	TCACAAGGAT	CCCAATGCCA	TCTTCCTGAG	CTTCCAACAC	480
CTGCTCCGAG GA	AAGGTGCG	TTTCCTGATG	CTTGTAGGAG	GGTCCACCCT	CTGCGTCAGG	540
GAATTCGGCG GC	CAACATGGC	GTCTCCCGCT	CCGCCTGCTT	GTGACCTCCG	AGTCCTCAGT	600

AAACTGCTTC	GTGACTCCCA	TGTCCTTCAC	AGCAGACTGA	GCCAGTGCCC	AGAGGTTCAC	660
CCTTTGCCTA	CACCTGTCCT	GCTGCCTGCT	GTGGACTTTA	GCTTGGGAGA	ATGGAAAACC	720
CAGATGGAGG	AGACCAAGGC	ACAGGACATT	CTGGGAGCAG	TGACCCTTCT	GCTGGAGGGA	780
GTGATGGCAG	CACGGGGACA	ACTGGGACCC	ACTTGCCTCT	CATCCCTCCT	GGGGCAGCTT	840
TCTGGACAGG	TCCGTCTCCT	CCTTGGGGCC	CTGCAGAGCC	TCCTTGGAAC	CCAGCTTCCT	900
CCACAGGGCA	GGACCACA					918

# (2) INFORMATION FOR SEQ ID NO:128:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 918 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:128:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGA	TCCCAATGCC	ATCTTCCTGA	GCTTCCAACA	CCTGCTCCGA	480
GGAAAGGTGC	GTTTCCTGAT	GCTTGTAGGA	GGGTCCACCC	TCTGCGTCAG	GGAATTCGGC	540
GGCAACATGG	CGTCTCCCGC	TCCGCCTGCT	TGTGACCTCC	GAGTCCTCAG	TAAACTGCTT	600
CGTGACTCCC	ATGTCCTTCA	CAGCAGACTG	AGCCAGTGCC	CAGAGGTTCA	CCCTTTGCCT	660
ACACCTGTCC	TGCTGCCTGC	TGTGGACTTT	AGCTTGGGAG	AATGGAAAAC	CCAGATGGAG	720
GAGACCAAGG	CACAGGACAT	TCTGGGAGCA	GTGACCCTTC	TGCTGGAGGG	AGTGATGGCA	780
GCACGGGGAC	AACTGGGACC	CACTTGCCTC	TCATCCCTCC	TGGGGCAGCT	TTCTGGACAG	840

GTCCGTCTCC	TCCTTGGGGC	CCTGCAGAGC	CTCCTTGGAA	CCCAGCTTCC	TCCACAGGGC	900
AGGACCACAG	CTCACAAG					918

#### (2) INFORMATION FOR SEQ ID NO:129:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 918 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:129:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGC	CATCTTCCTG	AGCTTCCAAC	ACCTGCTCCG	AGGAAAGGTG	480
CGTTTCCTGA	TGCTTGTAGG	AGGGTCCACC	CTCTGCGTCA	GGGAATTCGG	CGGCAACATG	540
GCGTCTCCCG	CTCCGCCTGC	TTGTGACCTC	CGAGTCCTCA	GTAAACTGCT	TCGTGACTCC	600
CATGTCCTTC	ACAGCAGACT	GAGCCAGTGC	CCAGAGGTTC	ACCCTTTGCC	TACACCTGTC	660
CTGCTGCCTG	CTGTGGACTT	TAGCTTGGGA	GAATGGAAAA	CCCAGATGGA	GGAGACCAAG	720
GCACAGGACA	TTCTGGGAGC	AGTGACCCTT	CTGCTGGAGG	GAGTGATGGC	AGCACGGGGA	780
CAACTGGGAC	CCACTTGCCT	CTCATCCCTC	CTGGGGCAGC	TTTCTGGACA	GGTCCGTCTC	840
CTCCTTGGGG	CCCTGCAGAG	CCTCCTTGGA	ACCCAGCTTC	CTCCACAGGG	CAGGACCACA	900
GCTCACAAGG	ATCCCAAT					918

### (2) INFORMATION FOR SEQ ID NO:130:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 915 base pairs
  - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:130:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	. 120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGA	GGTTCACCCT	TTGCCTACAC	CTGTCCTGCT	GCCTGCTGTG	480
GACTTTAGCT	TGGGAGAATG	GAAAACCCAG	ATGGAGGAGA	CCAAGGCACA	GGACATTCTG	540
GGAGCAGTGA	CCCTTCTGCT	GGAGGGAGTG	ATGGCAGCAC	GGGGACAACT	GGGACCCACT	600
TGCCTCTCAT	CCCTCCTGGG	GCAGCTTTCT	GGACAGGTCC	GTCTCCTCCT	TGGGGCCCTG	660
CAGAGCCTCC	TTGGAACCCA	GCTTCCTCCA	CAGGGCAGGA	CCACAGCTCA	CAAGGATCCC	720
AATGCCATCT	TCCTGAGCTT	CCAACACCTG	CTCCGAGGAA	AGGTGCGTTT	CCTGATGCTT	780
GTAGGAGGGT	CCACCCTCTG	CGTCAGGGAA	TTCGGCAACA	TGGCGTCTCC	CGCTCCGCCT	840
GCTTGTGACC	TCCGAGTCCT	CAGTAAACTG	CTTCGTGACT	CCCATGTCCT	TCACAGCAGA	900
CTGAGCCAGT	GCCCA					915

# (2) INFORMATION FOR SEQ ID NO:131:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 915 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:131:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGTT	GCCTACACCT	GTCCTGCTGC	CTGCTGTGGA	CTTTAGCTTG	480
GGAGAATGGA	AAACCCAGAT	GGAGGAGACC	AAGGCACAGG	ACATTCTGGG	AGCAGTGACC	540
CTTCTGCTGG	AGGGAGTGAT	GGCAGCACGG	GGACAACTGG	GACCCACTTG	CCTCTCATCC	600
CTCCTGGGGC	AGCTTTCTGG	ACAGGTCCGT	CTCCTCCTTG	GGGCCCTGCA	GAGCCTCCTT	660
GGAACCCAGC	TTCCTCCACA	GGGCAGGACC	ACAGCTCACA	AGGATCCCAA	TGCCATCTTC	720
CTGAGCTTCC	AACACCTGCT	CCGAGGAAAG	GTGCGTTTCC	TGATGCTTGT	AGGAGGGTCC	780
ACCCTCTGCG	TCAGGGAATT	CGGCAACATG	GCGTCTCCCG	CTCCGCCTGC	TTGTGACCTC	840
CGAGTCCTCA	GTAAACTGCT	TCGTGACTCC	CATGTCCTTC	ACAGCAGACT	GAGCCAGTGC	900
CCAGAGGTTC	ACCCT					915

#### (2) INFORMATION FOR SEQ ID NO:132:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 915 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

# (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:132:

GCTAACTGCT CTATAATGAT CGATGAAATT ATACATCACT TAAAGAGACC ACCTGCACCT 60

TTGCTGGACC CGAACAACCT CAATGACGAA GACGTCTCTA TCCTGATGGA CCGAAACCTT 120

CGACTTCCAA ACCTGGAGAG CTTCGTAAGG GCTGTCAAGA ACTTAGAAAA TGCATCAGGT 180

ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGT	CCTGCTGCCT	GCTGTGGACT	TTAGCTTGGG	AGAATGGAAA	480
ACCCAGATGG	AGGAGACCAA	GGCACAGGAC	ATTCTGGGAG	CAGTGACCCT	TCTGCTGGAG	540
GGAGTGATGG	CAGCACGGGG	ACAACTGGGA	CCCACTTGCC	TCTCATCCCT	CCTGGGGCAG	600
CTTTCTGGAC	AGGTCCGTCT	CCTCCTTGGG	GCCCTGCAGA	GCCTCCTTGG	AACCCAGCTT	660
CCTCCACAGG	GCAGGACCAC	AGCTCACAAG	GATCCCAATG	CCATCTTCCT	GAGCTTCCAA	720
CACCTGCTCC	GAGGAAAGGT	GCGTTTCCTG	ATGCTTGTAG	GAGGGTCCAC	CCTCTGCGTC	780
AGGGAATTCG	GCAACATGGC	GTCTCCCGCT	CCGCCTGCTT	GTGACCTCCG	AGTCCTCAGT	840
AAACTGCTTC	GTGACTCCCA	TGTCCTTCAC	AGCAGACTGA	GCCAGTGCCC	AGAGGTTCAC	900
CCTTTGCCTA	CACCT					915

#### (2) INFORMATION FOR SEQ ID NO:133:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 915 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:133:

60	ACCTGCACCT	TAAAGAGACC	ATACATCACT	CGATGAAATT	CTATAATGAT	GCTAACTGCT
120	CCGAAACCTT	TCCTGATGGA	GACGTCTCTA	CAATGACGAA	CGAACAACCT	TTGCTGGACC
180	TGCATCAGGT	ACTTAGAAAA	GCTGTCAAGA	CTTCGTAAGG	ACCTGGAGAG	CGACTTCCAA
240	CGCACCCTCT	CTGCCACGGC	TGTCTGCCCT	TCTCCAACCA	TTCTTCGTAA	ATTGAGGCAA
300	ACTGACGTTC	TCCGGGAAAA	TGGCAAGAAT	GGCAGGTGAC	TCATCATCAA	CGACATCCAA
360	TGGAGGCTCC	TAGAGGGCGG	CAACAGTACG	AGCGCAGGAA	CCCTTGAGCA	TATCTGGTTA
420	TAAAGAATCT	CTCCTCCGTC	ATCAACCCGT	AATCTCTACT	CGTCTGGTCC	CCGGGTGAAC

CATAAATCTC	CAAACATGGC	TGTGGACTTT	AGCTTGGGAG	AATGGAAAAC	CCAGATGGAG	480
GAGACCAAGG	CACAGGACAT	TCTGGGAGCA	GTGACCCTTC	TGCTGGAGGG	AGTGATGGCA	540
GCACGGGGAC	AACTGGGACC	CACTTGCCTC	TCATCCCTCC	TGGGGCAGCT	TTCTGGACAG	600
GTCCGTCTCC	TCCTTGGGGC	CCTGCAGAGC	CTCCTTGGAA	CCCAGCTTCC	TCCACAGGGC	660
AGGACCACAG	CTCACAAGGA	TCCCAATGCC	ATCTTCCTGA	GCTTCCAACA	CCTGCTCCGA	720
GGAAAGGTGC	GTTTCCTGAT	GCTTGTAGGA	GGGTCCACCC	TCTGCGTCAG	GGAATTCGGC	780
AACATGGCGT	CTCCCGCTCC	GCCTGCTTGT	GACCTCCGAG	TCCTCAGTAA	ACTGCTTCGT	840
GACTCCCATG	TCCTTCACAG	CAGACTGAGC	CAGTGCCCAG	AGGTTCACCC	TTTGCCTACA	900
CCTGTCCTGC	TGCCT					915

# (2) INFORMATION FOR SEQ ID NO:134:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 915 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:134:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGA	CTTTAGCTTG	GGAGAATGGA	AAACCCAGAT	GGAGGAGACC	480
AAGGCACAGG	ACATTCTGGG	AGCAGTGACC	CTTCTGCTGG	AGGGAGTGAT	GGCAGCACGG	540
GGACAACTGG	GACCCACTTG	CCTCTCATCC	CTCCTGGGGC	AGCTTTCTGG	ACAGGTCCGT	600
CTCCTCCTTG	GGGCCCTGCA	GAGCCTCCTT	GGAACCCAGC	TTCCTCCACA	GGGCAGGACC	660
ACAGCTCACA	AGGATCCCAA	TGCCATCTTC	CTGAGCTTCC	AACACCTGCT	CCGAGGAAAG	720

GTGCGTTTCC	TGATGCTTGT	AGGAGGGTCC	ACCCTCTGCG	TCAGGGAATT	CGGCAACATG	780
GCGTCTCCCG	CTCCGCCTGC	TTGTGACCTC	CGAGTCCTCA	GTAAACTGCT	TCGTGACTCC	840
CATGTCCTTC	ACAGCAGACT	GAGCCAGTGC	CCAGAGGTTC	ACCCTTTGCC	TACACCTGTC	900
CTGCTGCCTG	CTGTG					915

# (2) INFORMATION FOR SEQ ID NO:135:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 915 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:135:

GCTAACTG	CT CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGA	CC CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCC	AA ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGC	AA TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCC	AA TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGT'	TA CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGA	AC CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATC'	TC CAAACATGGG	AGAATGGAAA	ACCCAGATGG	AGGAGACCAA	GGCACAGGAC	480
ATTCTGGG	AG CAGTGACCCT	TCTGCTGGAG	GGAGTGATGG	CAGCACGGGG	ACAACTGGGA	540
CCCACTTG	CC TCTCATCCCT	CCTGGGGCAG	CTTTCTGGAC	AGGTCCGTCT	CCTCCTTGGG	600
GCCCTGCA	GA GCCTCCTTGG	AACCCAGCTT	CCTCCACAGG	GCAGGACCAC	AGCTCACAAG	660
GATCCCAA'	IG CCATCTTCCT	GAGCTTCCAA	CACCTGCTCC	GAGGAAAGGT	GCGTTTCCTG	720
ATGCTTGT	AG GAGGGTCCAC	CCTCTGCGTC	AGGGAATTCG	GCAACATGGC	GTCTCCCGCT	780
CCGCCTGC'	TT GTGACCTCCG	AGTCCTCAGT	AAACTGCTTC	GTGACTCCCA	TGTCCTTCAC	840
AGCAGACTO	GA GCCAGTGCCC	AGAGGTTCAC	CCTTTGCCTA	CACCTGTCCT	GCTGCCTGCT	900
GTGGACTT	TA GCTTG					915

# (2) INFORMATION FOR SEQ ID NO:136:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 915 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:136:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGG	ACCCACTTGC	CTCTCATCCC	TCCTGGGGCA	GCTTTCTGGA	480
CAGGTCCGTC	TCCTCCTTGG	GGCCCTGCAG	AGCCTCCTTG	GAACCCAGCT	TCCTCCACAG	540
GGCAGGACCA	CAGCTCACAA	GGATCCCAAT	GCCATCTTCC	TGAGCTTCCA	ACACCTGCTC	600
CGAGGAAAGG	TGCGTTTCCT	GATGCTTGTA	GGAGGGTCCA	CCCTCTGCGT	CAGGGAATTC	660
GGCAACATGG	CGTCTCCCGC	TCCGCCTGCT	TGTGACCTCC	GAGTCCTCAG	TAAACTGCTT	720
CGTGACTCCC	ATGTCCTTCA	CAGCAGACTG	AGCCAGTGCC	CAGAGGTTCA	CCCTTTGCCT	780
ACACCTGTCC	TGCTGCCTGC	TGTGGACTTT	AGCTTGGGAG	AATGGAAAAC	CCAGATGGAG	840
GAGACCAAGG	CACAGGACAT	TCTGGGAGCA	GTGACCCTTC	TGCTGGAGGG	AGTGATGGCA	900
GCACGGGGAC	AACTG					915

# (2) INFORMATION FOR SEQ ID NO:137:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 915 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid

# (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:137:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGG	AACCCAGCTT	CCTCCACAGG	GCAGGACCAC	AGCTCACAAG	480
GATCCCAATG	CCATCTTCCT	GAGCTTCCAA	CACCTGCTCC	GAGGAAAGGT	GCGTTTCCTG	540
ATGCTTGTAG	GAGGGTCCAC	CCTCTGCGTC	AGGGAATTCG	GCAACATGGC	GTCTCCCGCT	600
CCGCCTGCTT	GTGACCTCCG	AGTCCTCAGT	AAACTGCTTC	GTGACTCCCA	TGTCCTTCAC	660
AGCAGACTGA	GCCAGTGCCC	AGAGGTTCAC	CCTTTGCCTA	CACCTGTCCT	GCTGCCTGCT	720
GTGGACTTTA	GCTTGGGAGA	ATGGAAAACC	CAGATGGAGG	AGACCAAGGC	ACAGGACATT	780
CTGGGAGCAG	TGACCCTTCT	GCTGGAGGGA	GTGATGGCAG	CACGGGGACA	ACTGGGACCC	840
ACTTGCCTCT	CATCCCTCCT	GGGGCAGCTT	TCTGGACAGG	TCCGTCTCCT	CCTTGGGGCC	900
CTGCAGAGCC	TCCTT					915

#### (2) INFORMATION FOR SEQ ID NO:138:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 915 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:138:

TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
САТАААТСТС	CAAACATGGG	CAGGACCACA	GCTCACAAGG	ATCCCAATGC	CATCTTCCTG	480
AGCTTCCAAC	ACCTGCTCCG	AGGAAAGGTG	CGTTTCCTGA	TGCTTGTAGG	AGGGTCCACC	540
CTCTGCGTCA	GGGAATTCGG	CAACATGGCG	TCTCCCGCTC	CGCCTGCTTG	TGACCTCCGA	600
GTCCTCAGTA	AACTGCTTCG	TGACTCCCAT	GTCCTTCACA	GCAGACTGAG	CCAGTGCCCA	660
GAGGTTCACC	CTTTGCCTAC	ACCTGTCCTG	CTGCCTGCTG	TGGACTTTAG	CTTGGGAGAA	720
TGGAAAACCC	AGATGGAGGA	GACCAAGGCA	CAGGACATTC	TGGGAGCAGT	GACCCTTCTG	780
CTGGAGGGAG	TGATGGCAGC	ACGGGGACAA	CTGGGACCCA	CTTGCCTCTC	ATCCCTCCTG	840
GGGCAGCTTT	CTGGACAGGT	CCGTCTCCTC	CTTGGGGCCC	TGCAGAGCCT	CCTTGGAACC	900
CAGCTTCCTC	CACAG					915

# (2) INFORMATION FOR SEQ ID NO:139:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 915 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:139:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360

CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGC	TCACAAGGAT	CCCAATGCCA	TCTTCCTGAG	CTTCCAACAC	480
CTGCTCCGAG	GAAAGGTGCG	TTTCCTGATG	CTTGTAGGAG	GGTCCACCCT	CTGCGTCAGG	540
GAATTCGGCA	ACATGGCGTC	TCCCGCTCCG	CCTGCTTGTG	ACCTCCGAGT	CCTCAGTAAA	600
CTGCTTCGTG	ACTCCCATGT	CCTTCACAGC	AGACTGAGCC	AGTGCCCAGA	GGTTCACCCT	660
TTGCCTACAC	CTGTCCTGCT	GCCTGCTGTG	GACTTTAGCT	TGGGAGAATG	GAAAACCCAG	720
ATGGAGGAGA	CCAAGGCACA	GGACATTCTG	GGAGCAGTGA	CCCTTCTGCT	GGAGGGAGTG	780
ATGGCAGCAC	GGGGACAACT	GGGACCCACT	TGCCTCTCAT	CCCTCCTGGG	GCAGCTTTCT	840
GGACAGGTCC	GTCTCCTCCT	TGGGGCCCTG	CAGAGCCTCC	TTGGAACCCA	GCTTCCTCCA	900
CAGGGCAGGA	CCACA					915

# (2) INFORMATION FOR SEQ ID NO:140:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 915 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

# (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:140:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGA	TCCCAATGCC	ATCTTCCTGA	GCTTCCAACA	CCTGCTCCGA	480
GGAAAGGTGC	GTTTCCTGAT	GCTTGTAGGA	GGGTCCACCC	TCTGCGTCAG	GGAATTCGGC	540
AACATGGCGT	CTCCCGCTCC	GCCTGCTTGT	GACCTCCGAG	TCCTCAGTAA	ACTGCTTCGT	600

GACTCCCATG	TCCTTCACAG	CAGACTGAGC	CAGTGCCCAG	AGGTTCACCC	TTTGCCTACA	660
CCTGTCCTGC	TGCCTGCTGT	GGACTTTAGC	TTGGGAGAAT	GGAAAACCCA	GATGGAGGAG	720
ACCAAGGCAC	AGGACATTCT	GGGAGCAGTG	ACCCTTCTGC	TGGAGGGAGT	GATGGCAGCA	780
CGGGGACAAC	TGGGACCCAC	TTGCCTCTCA	TCCCTCCTGG	GGCAGCTTTC	TGGACAGGTC	840
CGTCTCCTCC	TTGGGGCCCT	GCAGAGCCTC	CTTGGAACCC	AGCTTCCTCC	ACAGGGCAGG	900
ACCACAGCTC	ACAAG					915

# (2) INFORMATION FOR SEQ ID NO:141:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 915 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:141:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGC	CATCTTCCTG	AGCTTCCAAC	ACCTGCTCCG	AGGAAAGGTG	480
CGTTTCCTGA	TGCTTGTAGG	AGGGTCCACC	CTCTGCGTCA	GGGAATTCGG	CAACATGGCG	540
TCTCCCGCTC	CGCCTGCTTG	TGACCTCCGA	GTCCTCAGTA	AACTGCTTCG	TGACTCCCAT	600
GTCCTTCACA	GCAGACTGAG	CCAGTGCCCA	GAGGTTCACC	CTTTGCCTAC	ACCTGTCCTG	660
CTGCCTGCTG	TGGACTTTAG	CTTGGGAGAA	TGGAAAACCC	AGATGGAGGA	GACCAAGGCA	720
CAGGACATTC	TGGGAGCAGT	GACCCTTCTG	CTGGAGGGAG	TGATGGCAGC	ACGGGGACAA	780
CTGGGACCCA	CTTGCCTCTC	ATCCCTCCTG	GGGCAGCTTT	CTGGACAGGT	CCGTCTCCTC	840
CTTGGGGCCC	TGCAGAGCCT	CCTTGGAACC	CAGCTTCCTC	CACAGGGCAG	GACCACAGCT	900

CACAAGGATC CCAAT 915

#### (2) INFORMATION FOR SEQ ID NO:142:

# (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 921 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

#### (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:142:

GCTAAG	CTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCT	GACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
GACTTO	CCAAA	CCTGGAGAGC	TTCGTAAGGG	CTGTCAAGAA	CTTAGAAAAT	GCATCAGGTA	180
TGAGGG	CAATT	CTTCGTAATC	TCCAACCATG	TCTGCCCTCT	GCCACGGCCG	CACCCTCTCG	240
CATCCA	AATCA	TCATCAAGGC	AGGTGACTGG	CAAGAATTCC	GGGAAAAACT	GACGTTCTAT	300
TGGTTA	ACCCT	TGAGCAAGCG	CAGGAACAAC	AGTACGTAGA	GGGCGGTGGA	GGCTCCCCGG	360
TAACCO	STCTG	GTCCAATCTC	TACTATCAAC	CCGTCTCCTC	CGTCTAAAGA	ATCTCATAAA	420
TCTCCA	AAACA	TGGAGGTTCA	CCCTTTGCCT	ACACCTGTCC	TGCTGCCTGC	TGTGGACTTT	480
AGCTTO	GGAG	AATGGAAAAC	CCAGATGGAG	GAGACCAAGG	CACAGGACAT	TCTGGGAGCA	540
GTGACO	CCTTC	TGCTGGAGGG	AGTGATGGCA	GCACGGGGAC	AACTGGGACC	CACTTGCCTC	600
TCATCO	CCTCC	TGGGGCAGCT	TTCTGGACAG	GTCCGTCTCC	TCCTTGGGGC	CCTGCAGAGC	660
CTCCTT	rggaa	CCCAGCTTCC	TCCACAGGGC	AGGACCACAG	CTCACAAGGA	TCCCAATGCC	720
ATCTTC	CCTGA	GCTTCCAACA	CCTGCTCCGA	GGAAAGGTGC	GTTTCCTGAT	GCTTGTAGGA	780
GGGTCC	CACCC	TCTGCGTCAG	GGAATTCGGC	GGCAACGGCG	GCAACATGGC	GTCCCCAGCG	840
CCGCCT	GCTT	GTGACCTCCG	AGTCCTCAGT	AAACTGCTTC	GTGACTCCCA	TGTCCTTCAC	900
AGCAGA	ACTGA	GCCAGTGCCC	A				921

# (2) INFORMATION FOR SEQ ID NO:143:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 927 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
   (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:143:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGTT	GCCTACACCT	GTCCTGCTGC	CTGCTGTGGA	CTTTAGCTTG	480
GGAGAATGGA	AAACCCAGAT	GGAGGAGACC	AAGGCACAGG	ACATTCTGGG	AGCAGTGACC	540
CTTCTGCTGG	AGGGAGTGAT	GGCAGCACGG	GGACAACTGG	GACCCACTTG	CCTCTCATCC	600
CTCCTGGGGC	AGCTTTCTGG	ACAGGTCCGT	СТССТССТТБ	GGGCCCTGCA	GAGCCTCCTT	660
GGAACCCAGC	TTCCTCCACA	GGGCAGGACC	ACAGCTCACA	AGGATCCCAA	TGCCATCTTC	720
CTGAGCTTCC	AACACCTGCT	CCGAGGAAAG	GTGCGTTTCC	TGATGCTTGT	AGGAGGGTCC	780
ACCCTCTGCG	TCAGGGAATT	CGGCGGCAAC	GGCGGCAACA	TGGCGTCCCC	AGCGCCGCCT	840
GCTTGTGACC	TCCGAGTCCT	CAGTAAACTG	CTTCGTGACT	CCCATGTCCT	TCACAGCAGA	900
CTGAGCCAGT	GCCCAGAGGT	TCACCCT				927

#### (2) INFORMATION FOR SEQ ID NO:144:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 927 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:144:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGT	CCTGCTGCCT	GCTGTGGACT	TTAGCTTGGG	AGAATGGAAA	480
ACCCAGATGG	AGGAGACCAA	GGCACAGGAC	ATTCTGGGAG	CAGTGACCCT	TCTGCTGGAG	540
GGAGTGATGG	CAGCACGGGG	ACAACTGGGA	CCCACTTGCC	TCTCATCCCT	CCTGGGGCAG	600
CTTTCTGGAC	AGGTCCGTCT	CCTCCTTGGG	GCCCTGCAGA	GCCTCCTTGG	AACCCAGCTT	660
CCTCCACAGG	GCAGGACCAC	AGCTCACAAG	GATCCCAATG	CCATCTTCCT	GAGCTTCCAA	720
CACCTGCTCC	GAGGAAAGGT	GCGTTTCCTG	ATGCTTGTAG	GAGGGTCCAC	CCTCTGCGTC	780
AGGGAATTCG	GCGGCAACGG	CGGCAACATG	GCGTCCCCAG	CGCCGCCTGC	TTGTGACCTC	840
CGAGTCCTCA	GTAAACTGCT	TCGTGACTCC	CATGTCCTTC	ACAGCAGACT	GAGCCAGTGC	900
CCAGAGGTTC	ACCCTTTGCC	TACACCT				927

#### (2) INFORMATION FOR SEQ ID NO:145:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 927 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:145:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240

CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
САТАААТСТС	CAAACATGGC	TGTGGACTTT	AGCTTGGGAG	AATGGAAAAC	CCAGATGGAG	480
GAGACCAAGG	CACAGGACAT	TCTGGGAGCA	GTGACCCTTC	TGCTGGAGGG	AGTGATGGCA	540
GCACGGGGAC	AACTGGGACC	CACTTGCCTC	TCATCCCTCC	TGGGGCAGCT	TTCTGGACAG	600
GTCCGTCTCC	TCCTTGGGGC	CCTGCAGAGC	CTCCTTGGAA	CCCAGCTTCC	TCCACAGGGC	660
AGGACCACAG	CTCACAAGGA	TCCCAATGCC	ATCTTCCTGA	GCTTCCAACA	CCTGCTCCGA	720
GGAAAGGTGC	GTTTCCTGAT	GCTTGTAGGA	GGGTCCACCC	TCTGCGTCAG	GGAATTCGGC	780
GGCAACGGCG	GCAACATGGC	GTCCCCAGCG	CCGCCTGCTT	GTGACCTCCG	AGTCCTCAGT	840
AAACTGCTTC	GTGACTCCCA	TGTCCTTCAC	AGCAGACTGA	GCCAGTGCCC	AGAGGTTCAC	900
CCTTTGCCTA	CACCTGTCCT	GCTGCCT				927

# (2) INFORMATION FOR SEQ ID NO:146:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 927 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:146:

60	ACCTGCACCT	TAAAGAGACC	ATACATCACT	CGATGAAATT	CTATAATGAT	GCTAACTGCT
120	CCGAAACCTT	TCCTGATGGA	GACGTCTCTA	CAATGACGAA	CGAACAACCT	TTGCTGGACC
180	TGCATCAGGT	ACTTAGAAAA	GCTGTCAAGA	CTTCGTAAGG	ACCTGGAGAG	CGACTTCCAA
240	CGCACCCTCT	CTGCCACGGC	TGTCTGCCCT	TCTCCAACCA	TTCTTCGTAA	ATTGAGGCAA
300	ACTGACGTTC	TCCGGGAAAA	TGGCAAGAAT	GGCAGGTGAC	TCATCATCAA	CGACATCCAA
360	TGGAGGCTCC	TAGAGGGCGG	CAACAGTACG	AGCGCAGGAA	CCCTTGAGCA	TATCTGGTTA
420	TAAAGAATCT	CTCCTCCGTC	ATCAACCCGT	AATCTCTACT	CGTCTGGTCC	CCGGGTGAAC
480	GGAGGAGACC	AAACCCAGAT	GGAGAATGGA	CTTTAGCTTG	CAAACATGGA	CATAAATCTC

AAGGCACAGG ACATTCTGGG	AGCAGTGACC	CTTCTGCTGG	AGGGAGTGAT	GGCAGCACGG	540
GGACAACTGG GACCCACTTG	CCTCTCATCC	CTCCTGGGGC	AGCTTTCTGG	ACAGGTCCGT	600
CTCCTCCTTG GGGCCCTGCA	GAGCCTCCTT	GGAACCCAGC	TTCCTCCACA	GGGCAGGACC	660
ACAGCTCACA AGGATCCCAA	TGCCATCTTC	CTGAGCTTCC	AACACCTGCT	CCGAGGAAAG	720
GTGCGTTTCC TGATGCTTGT	AGGAGGGTCC	ACCCTCTGCG	TCAGGGAATT	CGGCGGCAAC	780
GGCGGCAACA TGGCGTCCCC	AGCGCCGCCT	GCTTGTGACC	TCCGAGTCCT	CAGTAAACTG	840
CTTCGTGACT CCCATGTCCT	TCACAGCAGA	CTGAGCCAGT	GCCCAGAGGT	TCACCCTTTG	900
CCTACACCTG TCCTGCTGCC	TGCTGTG				927

#### (2) INFORMATION FOR SEQ ID NO:147:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 927 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

# (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:147:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
САТАААТСТС	CAAACATGGG	AGAATGGAAA	ACCCAGATGG	AGGAGACCAA	GGCACAGGAC	480
ATTCTGGGAG	CAGTGACCCT	TCTGCTGGAG	GGAGTGATGG	CAGCACGGGG	ACAACTGGGA	540
CCCACTTGCC	TCTCATCCCT	CCTGGGGCAG	CTTTCTGGAC	AGGTCCGTCT	CCTCCTTGGG	600
GCCCTGCAGA	GCCTCCTTGG	AACCCAGCTT	CCTCCACAGG	GCAGGACCAC	AGCTCACAAG	660
GATCCCAATG	CCATCTTCCT	GAGCTTCCAA	CACCTGCTCC	GAGGAAAGGT	GCGTTTCCTG	720
ATGCTTGTAG	GAGGGTCCAC	CCTCTGCGTC	AGGGAATTCG	GCGGCAACGG	CGGCAACATG	780

GCGTCCCCAG	CGCCGCCTGC	TTGTGACCTC	CGAGTCCTCA	GTAAACTGCT	TCGTGACTCC	840
CATGTCCTTC	ACAGCAGACT	GAGCCAGTGC	CCAGAGGTTC	ACCCTTTGCC	TACACCTGTC	900
CTGCTGCCTG	CTGTGGACTT	TAGCTTG				927

# (2) INFORMATION FOR SEQ ID NO:148:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 927 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGG	ACCCACTTGC	CTCTCATCCC	TCCTGGGGCA	GCTTTCTGGA	480
CAGGTCCGTC	TCCTCCTTGG	GGCCCTGCAG	AGCCTCCTTG	GAACCCAGCT	TCCTCCACAG	540
GGCAGGACCA	CAGCTCACAA	GGATCCCAAT	GCCATCTTCC	TGAGCTTCCA	ACACCTGCTC	600
CGAGGAAAGG	TGCGTTTCCT	GATGCTTGTA	GGAGGGTCCA	CCCTCTGCGT	CAGGGAATTC	660
GGCGGCAACG	GCGGCAACAT	GGCGTCCCCA	GCGCCGCCTG	CTTGTGACCT	CCGAGTCCTC	720
AGTAAACTGC	TTCGTGACTC	CCATGTCCTT	CACAGCAGAC	TGAGCCAGTG	CCCAGAGGTT	780.
CACCCTTTGC	CTACACCTGT	CCTGCTGCCT	GCTGTGGACT	TTAGCTTGGG	AGAATGGAAA	840
ACCCAGATGG	AGGAGACCAA	GGCACAGGAC	ATTCTGGGAG	CAGTGACCCT	TCTGCTGGAG	900
GGAGTGATGG	CAGCACGGGG	ACAACTG				927

# (2) INFORMATION FOR SEQ ID NO:149:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 927 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:149:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGG	AACCCAGCTT	CCTCCACAGG	GCAGGACCAC	AGCTCACAAG	480
GATCCCAATG	CCATCTTCCT	GAGCTTCCAA	CACCTGCTCC	GAGGAAAGGT	GCGTTTCCTG	540
ATGCTTGTAG	GAGGGTCCAC	CCTCTGCGTC	AGGGAATTCG	GCGGCAACGG	CGGCAACATG	600
GCGTCCCCAG	CGCCGCCTGC	TTGTGACCTC	CGAGTCCTCA	GTAAACTGCT	TCGTGACTCC	660
CATGTCCTTC	ACAGCAGACT	GAGCCAGTGC	CCAGAGGTTC	ACCCTTTGCC	TACACCTGTC	720
CTGCTGCCTG	CTGTGGACTT	TAGCTTGGGA	GAATGGAAAA	CCCAGATGGA	GGAGACCAAG	780
GCACAGGACA	TTCTGGGAGC	AGTGACCCTT	CTGCTGGAGG	GAGTGATGGC	AGCACGGGGA	840
CAACTGGGAC	CCACTTGCCT	CTCATCCCTC	CTGGGGCAGC	TTTCTGGACA	GGTCCGTCTC	900
CTCCTTGGGG	CCCTGCAGAG	CCTCCTT				927

# (2) INFORMATION FOR SEQ ID NO:150:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 927 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:150:

GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGG	CAGGACCACA	GCTCACAAGG	ATCCCAATGC	CATCTTCCTG	480
AGCTTCCAAC	ACCTGCTCCG	AGGAAAGGTG	CGTTTCCTGA	TGCTTGTAGG	AGGGTCCACC	540
CTCTGCGTCA	GGGAATTCGG	CGGCAACGGC	GGCAACATGG	CGTCCCCAGC	GCCGCCTGCT	600
TGTGACCTCC	GAGTCCTCAG	TAAACTGCTT	CGTGACTCCC	ATGTCCTTCA	CAGCAGACTG	660
AGCCAGTGCC	CAGAGGTTCA	CCCTTTGCCT	ACACCTGTCC	TGCTGCCTGC	TGTGGACTTT	720
AGCTTGGGAG	AATGGAAAAC	CCAGATGGAG	GAGACCAAGG	CACAGGACAT	TCTGGGAGCA	780
GTGACCCTTC	TGCTGGAGGG	AGTGATGGCA	GCACGGGGAC	AACTGGGACC	CACTTGCCTC	840
TCATCCCTCC	TGGGGCAGCT	TTCTGGACAG	GTCCGTCTCC	TCCTTGGGGC	CCTGCAGAGC	900
CTCCTTGGAA	CCCAGCTTCC	TCCACAG				927

#### (2) INFORMATION FOR SEQ ID NO:151:

#### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 927 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

#### (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:151:

GCTAACTGCT CTATAATGAT CGATGAAATT ATACATCACT TAAAGAGACC ACCTGCACCT 60

TTGCTGGACC CGAACAACCT CAATGACGAA GACGTCTCTA TCCTGATGGA CCGAAACCTT 120

CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	420
CATAAATCTC	CAAACATGGC	TCACAAGGAT	CCCAATGCCA	TCTTCCTGAG	CTTCCAACAC	480
CTGCTCCGAG	GAAAGGTGCG	TTTCCTGATG	CTTGTAGGAG	GGTCCACCCT	CTGCGTCAGG	540
GAATTCGGCG	GCAACGGCGG	CAACATGGCG	TCCCCAGCGC	CGCCTGCTTG	TGACCTCCGA	600
GTCCTCAGTA	AACTGCTTCG	TGACTCCCAT	GTCCTTCACA	GCAGACTGAG	CCAGTGCCCA	660
GAGGTTCACC	CTTTGCCTAC	ACCTGTCCTG	CTGCCTGCTG	TGGACTTTAG	CTTGGGAGAA	720
TGGAAAACCC	AGATGGAGGA	GACCAAGGCA	CAGGACATTC	TGGGAGCAGT	GACCCTTCTG	780
CTGGAGGGAG	TGATGGCAGC	ACGGGGACAA	CTGGGACCCA	CTTGĊCTCTC	ATCCCTCCTG	840
GGGCAGCTTT	CTGGACAGGT	CCGTCTCCTC	CTTGGGGCCC	TGCAGAGCCT	CCTTGGAACC	900
CAGCTTCCTC	CACAGGGCAG	GACCACA				927

# (2) INFORMATION FOR SEQ ID NO:152:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 927 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:152:

GCTAACTGCT (	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	60
TTGCTGGACC C	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	CCGAAACCTT	120
CGACTTCCAA A	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	180
ATTGAGGCAA T	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	240
CGACATCCAA T	CATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	300
TATCTGGTTA C	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	360
CCGGGTGAAC C	CGTCTGGTCC	AATCTCTACT	АТСААССССТ	СТССТСССТС	ТАЛАСААТСТ	420

CATAAATCTC	CAAACATGGA	TCCCAATGCC	ATCTTCCTGA	GCTTCCAACA	CCTGCTCCGA	480
GGAAAGGTGC	GTTTCCTGAT	GCTTGTAGGA	GGGTCCACCC	TCTGCGTCAG	GGAATTCGGC	540
GGCAACGGCG	GCAACATGGC	GTCCCCAGCG	CCGCCTGCTT	GTGACCTCCG	AGTCCTCAGT	600
AAACTGCTTC	GTGACTCCCA	TGTCCTTCAC	AGCAGACTGA	GCCAGTGCCC	AGAGGTTCAC	660
CCTTTGCCTA	CACCTGTCCT	GCTGCCTGCT	GTGGACTTTA	GCTTGGGAGA	ATGGAAAACC	720
CAGATGGAGG	AGACCAAGGC	ACAGGACATT	CTGGGAGCAG	TGACCCTTCT	GCTGGAGGGA	780
GTGATGGCAG	CACGGGGACA	ACTGGGACCC	ACTTGCCTCT	CATCCCTCCT	GGGGCAGCTT	840
TCTGGACAGG	TCCGTCTCCT	CCTTGGGGCC	CTGCAGAGCC	TCCTTGGAAC	CCAGCTTCCT	900
CCACAGGGCA	GGACCACAGC	TCACAAG				927

#### (2) INFORMATION FOR SEQ ID NO:153:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 927 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:153:

60	ACCTGCACCT	TAAAGAGACC	ATACATCACT	CGATGAAATT	CTATAATGAT	GCTAACTGCT
120	CCGAAACCTT	TCCTGATGGA	GACGTCTCTA	CAATGACGAA	CGAACAACCT	TTGCTGGACC
180	TGCATCAGGT	ACTTAGAAAA	GCTGTCAAGA	CTTCGTAAGG	ACCTGGAGAG	CGACTTCCAA
240	CGCACCCTCT	CTGCCACGGC	TGTCTGCCCT	TCTCCAACCA	TTCTTCGTAA	ATTGAGGCAA
300	ACTGACGTTC	TCCGGGAAAA	TGGCAAGAAT	GGCAGGTGAC	TCATCATCAA	CGACATCCAA
360	TGGAGGCTCC	TAGAGGGCGG	CAACAGTACG	AGCGCAGGAA	CCCTTGAGCA	TATCTGGTTA
420	TAAAGAATCT	CTCCTCCGTC	ATCAACCCGT	AATCTCTACT	CGTCTGGTCC	CCGGGTGAAC
480	AGGAAAGGTG	ACCTGCTCCG	AGCTTCCAAC	CATCTTCCTG	CAAACATGGC	CATAAATCTC
540	CGGCAACGGC	GGGAATTCGG	CTCTGCGTCA	AGGGTCCACC	TGCTTGTAGG	CGTTTCCTGA
600	TAAACTGCTT	GAGTCCTCAG	TGTGACCTCC	GCCGCCTGCT	CGTCCCCAGC	GGCAACATGG
660	CCCTTTGCCT	CAGAGGTTCA	AGCCAGTGCC	CAGCAGACTG	ATGTCCTTCA	CGTGACTCCC

ACACCTGTCC	TGCTGCCTGC	TGTGGACTTT	AGCTTGGGAG	AATGGAAAAC	CCAGATGGAG	720
GAGACCAAGG	CACAGGACAT	TCTGGGAGCA	GTGACCCTTC	TGCTGGAGGG	AGTGATGGCA	780
GCACGGGGAC	AACTGGGACC	CACTTGCCTC	TCATCCCTCC	TGGGGCAGCT	TTCTGGACAG	840
GTCCGTCTCC	TCCTTGGGGC	CCTGCAGAGC	CTCCTTGGAA	CCCAGCTTCC	TCCACAGGGC	900
AGGACCACAG	CTCACAAGGA	TCCCAAT				927

#### (2) INFORMATION FOR SEQ ID NO:154:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 906 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear

#### (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:154:

GCTAACTGCT CTATAATGAT CGATGAAATT ATACATCACT TAAAGAGACC ACCTGCACCT 60 TTGCTGGACC CGAACACCT CAATGACGAA GACGTCTCTA TCCTGATGGA CCGAAACCTT 120 CGACTTCCAA ACCTGGAGAG CTTCGTAAGG GCTGTCAAGA ACTTAGAAAA TGCATCAGGT 180 ATTGAGGCAA TTCTTCGTAA TCTCCAACCA TGTCTGCCCT CTGCCACGGC CGCACCCTCT 240 CGACATCCAA TCATCATCAA GGCAGGTGAC TGGCAAGAAT TCCGGGAAAA ACTGACGTTC 300 TATCTGGTTA CCCTTGAGCA AGCGCAGGAA CAACAGTACG TAGAGGGCGG TGGAGGCTCC 360 CCGGGTGAAC CGTCTGGTCC AATCTCTACT ATCAACCCGT CTCCTCCGTC TAAAGAATCT 420 CATAAATCTC CAAACATGGA TCCCAATGCC ATCTTCCTGA GCTTCCAACA CCTGCTCCGA 480 GGAAAGGTGC GTTTCCTGAT GCTTGTAGGA GGGTCCACCC TCTGCGTCAG GGAATTCGGC 540 GGCAACATGG CGTCTCCCGC TCCGCCTGCT TGTGACCTCC GAGTCCTCAG TAAACTGCTT 600 CGTGACTCCC ATGTCCTTCA CAGCAGACTG AGCCAGTGCC CAGAGGTTCA CCCTTTGCCT 660 ACACCTGTCC TGCTGCCTGC TGTGGACTTT AGCTTGGGAG AATGGAAAAC CCAGATGGAG 720 GAGACCAAGG CACAGGACAT TCTGGGAGCA GTGACCCTTC TGCTGGAGGG AGTGATGGCA 780 GCACGGGGAC AACTGGGACC CACTTGCCTC TCATCCCTCC TGGGGCAGCT TTCTGGACAG 840 GTCCGTCTCC TCCTTGGGGC CCTGCAGAGC CTCCTTGGAA CCCAGGGCAG GACCACAGCT 900

CACAAG 906

# (2) INFORMATION FOR SEQ ID NO:155:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 993 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

# (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:155:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGATCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GTCTTACAAG	CTGTGCCACC	CCGAGGAGCT	GGTGCTGCTC	480
GGACACTCTC	TGGGCATCCC	CTGGGCTCCC	CTGAGCTCCT	GCCCCAGCCA	GGCCCTGCAG	540
CTGGCAGGCT	GCTTGAGCCA	ACTCCATAGC	GGCCTTTTCC	TCTACCAGGG	GCTCCTGCAG	600
GCCCTGGAAG	GGATATCCCC	CGAGTTGGGT	CCCACCTTGG	ACACACTGCA	GCTGGACGTC	660
GCCGACTTTG	CCACCACCAT	CTGGCAGCAG	ATGGAAGAAC	TGGGAATGGC	CCCTGCCCTG	720
CAGCCCACCC	AGGGTGCCAT	GCCGGCCTTC	GCCTCTGCTT	TCCAGCGCCG	GGCAGGAGGG	780
GTCCTGGTTG	CTAGCCATCT	GCAGAGCTTC	CTGGAGGTGT	CGTACCGCGT	TCTACGCCAC	840
CTTGCGCAGC	ccgccgccg	CTCTGACATG	GCTACACCAT	TAGGCCCTGC	CAGCTCCCTG	900
CCCCAGAGCT	TCCTGCTCAA	GTCTTTAGAG	CAAGTGAGGA	AGATCCAGGG	CGATGGCGCA	960
GCGCTCCAGG	AGAAGCTGTG	TGCCACCTAA	TAA			993

# (2) INFORMATION FOR SEQ ID NO:156:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 993 base pairs
  - (B) TYPE: nucleic acid

- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:156:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGATCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GTCTCCCGAG	TTGGGTCCCA	CCTTGGACAC	ACTGCAGCTG	480
GACGTCGCCG	ACTTTGCCAC	CACCATCTGG	CAGCAGATGG	AAGAACTGGG	AATGGCCCCT	540
GCCCTGCAGC	CCACCCAGGG	TGCCATGCCG	GCCTTCGCCT	CTGCTTTCCA	GCGCCGGGCA	600
GGAGGGGTCC	TGGTTGCTAG	CCATCTGCAG	AGCTTCCTGG	AGGTGTCGTA	CCGCGTTCTA	660
CGCCACCTTG	CGCAGCCCGG	CGGCGGCTCT	GACATGGCTA	CACCATTAGG	CCCTGCCAGC	720
TCCCTGCCCC	AGAGCTTCCT	GCTCAAGTCT	TTAGAGCAAG	TGAGGAAGAT	CCAGGGCGAT	780
GGCGCAGCGC	TCCAGGAGAA	GCTGTGTGCC	ACCTACAAGC	TGTGCCACCC	CGAGGAGCTG	840
GTGCTGCTCG	GACACTCTCT	GGGCATCCCC	TGGGCTCCCC	TGAGCTCCTG	CCCCAGCCAG	900
GCCCTGCAGC	TGGCAGGCTG	CTTGAGCCAA	CTCCATAGCG	GCCTTTTCCT	CTACCAGGGG	960
CTCCTGCAGG	CCCTGGAAGG	GATATCCTAA	TAA			993

# (2) INFORMATION FOR SEQ ID NO:157:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 993 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:157:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGATCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GTCTTCTGCT	TTCCAGCGCC	GGGCAGGAGG	GGTCCTGGTT	480
GCTAGCCATC	TGCAGAGCTT	CCTGGAGGTG	TCGTACCGCG	TTCTACGCCA	CCTTGCGCAG	540
CCCGGCGGCG	GCTCTGACAT	GGCTACACCA	TTAGGCCCTG	CCAGCTCCCT	GCCCCAGAGC	600
TTCCTGCTCA	AGTCTTTAGA	GCAAGTGAGG	AAGATCCAGG	GCGATGGCGC	AGCGCTCCAG	660
GAGAAGCTGT	GTGCCACCTA	CAAGCTGTGC	CACCCGAGG	AGCTGGTGCT	GCTCGGACAC	720
TCTCTGGGCA	TCCCCTGGGC	TCCCCTGAGC	TCCTGCCCCA	GCCAGGCCCT	GCAGCTGGCA	780
GGCTGCTTGA	GCCAACTCCA	TAGCGGCCTT	TTCCTCTACC	AGGGGCTCCT	GCAGGCCCTG	840
GAAGGGATAT	CCCCGAGTT	GGGTCCCACC	TTGGACACAC	TGCAGCTGGA	CGTCGCCGAC	900
TTTGCCACCA	CCATCTGGCA	GCAGATGGAA	GAACTGGGAA	TGGCCCCTGC	CCTGCAGCCC	960
ACCCAGGGTG	CCATGCCGGC	CTTCGCCTAA	TAA			993

#### (2) INFORMATION FOR SEQ ID NO:158:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 993 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:158:

CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGATCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GTCTATGGCC	CCTGCCCTGC	AGCCCACCCA	GGGTGCCATG	480
CCGGCCTTCG	CCTCTGCTTT	CCAGCGCCGG	GCAGGAGGGG	TCCTGGTTGC	TAGCCATCTG	540
CAGAGCTTCC	TGGAGGTGTC	GTACCGCGTT	CTACGCCACC	TTGCGCAGCC	CGGCGGCGGC	600
TCTGACATGG	CTACACCATT	AGGCCCTGCC	AGCTCCCTGC	CCCAGAGCTT	CCTGCTCAAG	660
TCTTTAGAGC	AAGTGAGGAA	GATCCAGGGC	GATGGCGCAG	CGCTCCAGGA	GAAGCTGTGT	720
GCCACCTACA	AGCTGTGCCA	CCCCGAGGAG	CTGGTGCTGC	TCGGACACTC	TCTGGGCATC	780
CCCTGGGCTC	CCCTGAGCTC	CTGCCCCAGC	CAGGCCCTGC	AGCTGGCAGG	CTGCTTGAGC	840
CAACTCCATA	GCGGCCTTTT	CCTCTACCAG	GGGCTCCTGC	AGGCCCTGGA	AGGGATATCC	900
CCCGAGTTGG	GTCCCACCTT	GGACACACTG	CAGCTGGACG	TCGCCGACTT	TGCCACCACC	960
ATCTGGCAGC	AGATGGAAGA	ACTGGGATAA	TAA			993

# (2) INFORMATION FOR SEQ ID NO:159:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 993 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:159:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGATCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300

TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GTCTACCCAG	GGTGCCATGC	CGGCCTTCGC	CTCTGCTTTC	480
CAGCGCCGGG	CAGGAGGGGT	CCTGGTTGCT	AGCCATCTGC	AGAGCTTCCT	GGAGGTGTCG	540
TACCGCGTTC	TACGCCACCT	TGCGCAGCCC	GGCGGCGGCT	CTGACATGGC	TACACCATTA	600
GGCCCTGCCA	GCTCCCTGCC	CCAGAGCTTC	CTGCTCAAGT	CTTTAGAGCA	AGTGAGGAAG	660
ATCCAGGGCG	ATGGCGCAGC	GCTCCAGGAG	AAGCTGTGTG	CCACCTACAA	GCTGTGCCAC	720
CCCGAGGAGC	TGGTGCTGCT	CGGACACTCT	CTGGGCATCC	CCTGGGCTCC	CCTGAGCTCC	780
TGCCCCAGCC	AGGCCCTGCA	GCTGGCAGGC	TGCTTGAGCC	AACTCCATAG	CGGCCTTTTC	840
CTCTACCAGG	GGCTCCTGCA	GGCCCTGGAA	GGGATATCCC	CCGAGTTGGG	TCCCACCTTG	900
GACACACTGC	AGCTGGACGT	CGCCGACTTT	GCCACCACCA	TCTGGCAGCA	GATGGAAGAA	960
CTGGGAATGG	CCCCTGCCCT	GCAGCCCTAA	TAA			993

# (2) INFORMATION FOR SEQ ID NO:160:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 1027 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:160:

P	TGGCTACAC	CATTGGGCCC	TGCCAGCTCC	CTGCCCCAGA	GCTTCCTGCT	CAAGTCTTTA	60
G	AGCAAGTGA	GGAAGATCCA	GGGCGATGGC	GCAGCGCTCC	AGGAGAAGCT	GTGTGCCACC	120
Ί	ACAAGCTGT	GCCACCCGA	GGAGCTGGTG	CTGCTCGGAC	ACTCTCTGGG	CATCCCCTGG	180
G	CTCCCCTGA	GCTCCTGCCC	CAGCCAGGCC	CTGCAGCTGG	CAGGCTGCTT	GAGCCAACTC	240
C	ATAGCGGCC	TTTTCCTCTA	CCAGGGGCTC	CTGCAGGCCC	TGGAAGGGAT	ATCCCCCGAG	300
Τ	TGGGTCCCA	CCTTGGACAC	ACTGCAGCTG	GACGTCGCCG	ACTTTGCCAC	CACCATCTGG	360
С	AGCAGATGG	AAGAACTGGG	AATGGCCCCT	GCCCTGCAGC	CCACCCAGGG	TGCCATGCCG	420
G	CCTTCGCCT	CTGCTTTCCA	GCGCCGGGCA	GGAGGGGTCC	TGGTTGCTAG	CCATCTGCAG	480

AGCTTCCTGG	AGGTGTCGTA	CCGCGTTCTA	CGCCACCTTG	CGCAGCCCGG	CGGCGGCTCT	540
GACATGGCTA	CACCATTGGG	CCCTGCCAGC	TCCCTGCCCC	AGAGCTTCCT	GCTCAAGTCT	600
TTAGAGCAAG	TGAGGAAGAT	CCAGGGCGAT	GGCGCAGCGC	TCCAGGAGAA	GCTGTGTGCC	660
ACCTACAAGC	TGTGCCACCC	CGAGGAGCTG	GTGCTGCTCG	GACACTCTCT	GGGCATCCCC	720
TGGGCTCCCC	TGAGCTCCTG	CCCCAGCCAG	GCCCTGCAGC	TGGCAGGCTG	CTTGAGCCAA	780
CTCCATAGCG	GCCTTTTCCT	CTACCAGGGG	CTCCTGCAGG	CCCTGGAAGG	GATATCCCCC	840
GAGTTGGGTC	CCACCTTGGA	CACACTGCAG	CTGGACGTCG	CCGACTTTGC	CACCACCATC	900
TGGCAGCAGA	TGGAAGAACT	GGGAATGGCC	CCTGCCCTGC	AGCCCACCCA	TCCTGGTTGC	960
TAGCCATCTG	CAGAGCTTCC	TGGAGGTGTC	GTACCGCGTT	CTACGCCACC	TTGCGCAGCC	1020
CTGATAA						1027

#### (2) INFORMATION FOR SEQ ID NO:161:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 155 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:161:

Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val 20 25 30

His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu 35 40 45

Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu 50 60

Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln 65 70 75 80

Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln 85 90 95

Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100 105 110

Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe

115 120 125

Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu 130 135 140

Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe 145 150 155

- (2) INFORMATION FOR SEQ ID NO:162:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 309 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: unknown
    - (D) TOPOLOGY: unknown
  - (ii) MOLECULE TYPE: peptide
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:162:

Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu 1 5 10 15

Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val 20 25 30

His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu 35 40 45

Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu 50 55 60

Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln 65 70 75 80

Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln 85 90 95

Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu 100 105 110

Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe 115 120 125

Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu 130 135 140

Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Gly Asn Met Ala 145 150 155 160

Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu 165 170 175

Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val

180 185 190

His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu 195 200 205

- Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu 210 215 220
- Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln 225 235 240
- Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln 245 250 255
- Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Gly 260 265 270
- Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln 275 280 285
- His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu Val Gly Gly Ser 290 295 300

Thr Leu Cys Val Arg 305

# (2) INFORMATION FOR SEQ ID NO:163:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 312 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:163:
- Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu 1 5 10 15
- Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val 20 25 30
- His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu 35 40 45
- Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu 50 55 60
- Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln 65 70 75 80
- Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln

90 95

Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu 105 Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe 120 Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu 135 Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Asn Met Ala Ser 145 150 155 Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu Arg 170 Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val His 185 Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu Gly 200 Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Arg Gly Gln Leu 225 230 235 Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln Val 250 Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu Pro 265 Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe Leu 280 Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu Val 300

# (2) INFORMATION FOR SEQ ID NO:164:

305

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 313 amino acids

310

(B) TYPE: amino acid

Gly Gly Ser Thr Leu Cys Val Arg

- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:164:

- Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu 1 5 10 15
- Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val 20 25 30
- His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu 35 40 45 .
- Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu 50 55 60
- Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln 65 70 75 80
- Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln 85 90 95
- Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
  100 105 110
- Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe 115 120 125
- Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu 130 135 140
- Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Gly Asn Met Ala 145 150 155 160
- Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu 165 170 175
- Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val 180 185 190
- His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu 195 200 205
- Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu 210 215 220
- Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln 225 230 235 240
- Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
  245 250 255
- Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu 260 265 270
- Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe 275 280 285
- Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu

290 295 300

Val Gly Gly Ser Thr Leu Cys Val Arg 305 310

#### (2) INFORMATION FOR SEQ ID NO:165:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 316 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:165:
- Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu 1 5 10 15
- Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val 20 25 30
- His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu 35 40 45
- Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu 50 55 60
- Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln 65 70 75 80
- Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln 85 90 95
- Val Arg Leu Leu Gly Ala Leu Gl<br/>n Ser Leu Leu Gly Thr Gl<br/>n Leu 100 105 110
- Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe 115 120 125
- Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu 130 135 140
- Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Gly Asn Gly Gly 145 150 155 160
- Asn Met Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser 165 170 175
- Lys Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys 180 185 190
- Pro Glu Val His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp

Phe Ser Leu Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln 210 215 220

Asp Ile Leu Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala 225 230 235 240

Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu 245 250 255

Ser Gly Gln Val Arg Leu Leu Eu Gly Ala Leu Gln Ser Leu Leu Gly 260 265 270

Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn 275 280 285

Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe 290 295 300

Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg 305 310 315

#### (2) INFORMATION FOR SEQ ID NO:166:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 302 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEO ID NO:166:

Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15

Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser 20 25 30

Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$ 

Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu 50 55 60

Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg 65 70 75 80

His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys 85 90 95

Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Tyr

Val Glu Gly Gly Gly Ser Pro Gly Gly Gly Ser Gly Gly Ser 115 120 125

Asn Met Ala Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly 130 135 140

His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln 145 150 155 160

Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe 165 170 175

Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu 180 185 190

Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr
195 200 205

Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln 210 220

Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg Arg 225 230 235 240

Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu Val 245 250 255

Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Ser Gly Gly Ser Gly 260 265 270

Gly Ser Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile 275 280 285

Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr 290 295 300

#### (2) INFORMATION FOR SEQ ID NO:167:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 317 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:167:

Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15

Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser

Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val 40 Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys 90 Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Tyr 100 105 Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile Ser 120 Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn 130 135 Met Ala Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly His 155 Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala 170 Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu 185 Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly 200 Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr 210 215 Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro 230 235 Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala 250 Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Ser Gly Gly Ser Gly Gly 280 Ser Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arq Lys Ile Gln 290 Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr

#### (2) INFORMATION FOR SEQ ID NO:168:

310

315

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 302 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:168:

Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15

Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser 20 25 30

Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val

Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu 50 55 60

Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg

70 75 80

His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys 85 90 95

Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Gln Gln Tyr 100 105 110

Val Glu Gly Gly Gly Ser Pro Gly Gly Gly Ser Gly Gly Ser 115 120 125

Asn Met Ala Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp 130 135 140

Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly
145 150 155 160

Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala 165 170 175

Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu 180 185 190

Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln 195 200 205

Pro Ser Gly Gly Ser Gly Ser Gln Ser Phe Leu Leu Lys Ser Leu 210 215 220

Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys 225 230 235 240

Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu 245 250 255

Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser 260 265 270

Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu 275 280 285

Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser 290 295 300

#### (2) INFORMATION FOR SEQ ID NO:169:

- (i) SEOUENCE CHARACTERISTICS:
  - (A) LENGTH: 317 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:169:

Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15

Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser 20 25 30

Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val 35 40 45

Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu 50 55 60

Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg 65 70 75 80

His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys 85 90 95

Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Tyr 100 105 110

Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile Ser 115 120 125

Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn 130 135 140

Met Ala Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val 150 145 Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met 170 Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser 185 Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arq Val Leu Arq His Leu Ala Gln Pro Ser Gly Gly Ser Gly Ser Gln Ser Phe Leu Lys Ser Leu Glu 230 235 Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu 250 245 Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly

His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln 275 280 285

265

Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe 290 295 300

Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser 305 310 315

#### (2) INFORMATION FOR SEQ ID NO:170:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 302 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:170:

Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15

Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser 20 25 30

Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val 35 40 45

Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg 70 75 His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Gly Gly Ser Gly Gly Ser 120 Asn Met Ala Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro 130 135 Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala 150 155 Ser His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His 170 Leu Ala Gln Pro Ser Gly Gly Ser Gly Ser Gln Ser Phe Leu Leu 185 190 Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu 215 Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser 225 230 235 Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His 250 Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile 260 265 270 Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly

# (2) INFORMATION FOR SEQ ID NO:171:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 317 amino acids

295

- (B) TYPE: amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:171:

- Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15
- Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser 20 25 30
- Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val 35 40 45
- Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu 50 55 60
- Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg 65 70 75 80
- His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys 85 90 95
- Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln Tyr 100 105 110
- Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile Ser 115 120 125
- Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn 130 135 140
- Met Ala Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala 145 150 155 160
- Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser 165 170 175
- His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu 180 185 190
- Ala Gln Pro Ser Gly Gly Ser Gly Gly Ser Gln Ser Phe Leu Leu Lys 195 200 205
- Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln 210 215 220
- Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val 225 230 235 240
- Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys 245 250 255
- Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser 260 265 270

Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser 275 280 285

Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp 290 295 300

Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly 305 310 315

#### (2) INFORMATION FOR SEQ ID NO:172:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 302 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:172:

Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15

Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser 20 25 30

Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val

Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu 50 60

Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg 70 75 80

His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys 85 90 95

Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Tyr 100 105 110

Val Glu Gly Gly Gly Ser Pro Gly Gly Gly Ser Gly Gly Ser 115 120 125

Asn Met Ala Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln 130 135 140

Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu 145 150 155 160

Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Ser Gly Gly
165 170 175

Ser Gly Gly Ser Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg 180 185 190

Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr 195 200 205

Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly His Ser Leu 210 215 220

Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln 225 230 235 240

Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln
245 250 255

Gly Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr 260 265 270

Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp 275 280 285

Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro 290 295 300

#### (2) INFORMATION FOR SEQ ID NO:173:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 317 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:173:

Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15

Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser 20 25 30

Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val 35 40 45

Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu 50 55 60

Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg 65 70 75 80

His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys 85 90 95

- Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln Tyr 100 105 110
- Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile Ser 115 120 125
- Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn 130 135 140
- Met Ala Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg 145 150 155 160
- Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu 165 170 175
- Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Ser Gly Gly Ser 180 185 190
- Gly Gly Ser Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys 195 200 205
- Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr
  210 215 220
- Lys Leu Cys His Pro Glu Glu Leu Val Leu Cly His Ser Leu Gly 225 230 235 240
- Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu 245 250 255
- Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly 260 265 270
- Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu 275 280 285
- Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln 290 295 300
- Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro 305 310 315

#### (2) INFORMATION FOR SEQ ID NO:174:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 302 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:174:

Asn 1	Cys	Ser	iie	Met 5	IIe	Asp	Glu	11e	11e	HIS	HIS	Leu	гуѕ	Arg 15	Pro
Pro	Ala	Pro	Leu 20	Leu	Asp	Pro	Asn	Asn 25	Leu	Asn	Asp	Glu	Asp 30	Val	Ser
Ile	Leu	Met 35	Asp	Arg	Asn	Leu	Arg 40	Leu	Pro	Asn	Leu	Glu 45	Ser	Phe	Val
Arg	Ala 50	Val	Lys	Asn	Leu	Glu 55	Asn	Ala	Ser	Gly	Ile 60	Glu	Ala	Ile	Leu
Arg 65	Asn	Leu	Gln	Pro	Cys 70	Leu	Pro	Ser	Ala	Thr 75	Ala	Ala	Pro	Ser	Arg 80
His	Pro	Ile	Ile	Ile 85	Lys	Ala	Gly	Asp	Trp 90	Gln	Glu	Phe	Arg	Glu 95	Lys
Leu	Thr	Phe	Tyr 100	Leu	Val	Thr	Leu	Glu 105	Gln	Ala	Gln	Glu	Gln 110	Gln	Tyr
Val	Glu	Gly 115	Gly	Gly	Gly	Ser	Pro 120	Gly	Gly	Gly	Ser	Gly 125	Gly	Gly	Ser
Asn	Met 130	Ala	Ser	Ala	Phe	Gln 135	Arg	Arg	Ala	Gly	Gly 140	Val	Leu	Val	Ala
Ser 145	His	Leu	Gln	Ser	Phe 150	Leu	Glu	Val	Ser	Tyr 155	Arg	Val	Leu	Arg	His 160
Leu	Ala	Gln	Pro	Ser 165	Gly	Gly	Ser	Gly	Gly 170	Ser	Gln	Ser	Phe	Leu 175	Leu
Lys	Ser	Leu	Glu 180	Gln	Val	Arg	Lys	Ile 185	Gln	Gly	Asp	Gly	Ala 190	Ala	Leu
Gln	Glu	Lys 195	Leu	Cys	Ala	Thr	Tyr 200	Lys	Leu	Cys	His	Pro 205	Glu	Glu	Leu
Val	Leu 210	Leu	Gly	His	Ser	Leu 215	Gly	Ile	Pro	Trp	Ala 220	Pro	Leu	Ser	Ser
Cys 225	Pro	Ser	Gln	Ala	Leu 230	Gln	Leu	Ala	Gly	Cys 235	Leu	Ser	Gln	Leu	His 240
Ser	Gly	Leu	Phe	Leu 245	Tyr	Gln	Gly	Leu	Leu 250	Gln	Ala	Leu	Glu	Gly 255	Ile
Ser	Pro	Glu	Leu 260	Gly	Pro	Thr	Leu	Asp 265	Thr	Leu	Gln	Leu	Asp 270	Val	Ala
Asp	Phe	Ala 275	Thr	Thr	Ile	Trp	Gln 280	Gln	Met	Glu	Glu	Leu 285	Gly	Met	Ala
Pro	Ala 290	Leu	Gln	Pro	Thr	Gln 295	Gly	Ala	Met	Pro	Ala 300	Phe	Ala		

# (2) INFORMATION FOR SEQ ID NO:175:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 317 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:175:
- Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15
- Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser 20 25 30
- Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val
  . 35 40 45
- Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu 50 60
- Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg 65 70 75 80
- His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys 85 90 95
- Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Tyr 100 105 110
- Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile Ser 115 120 125
- Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn 130 135 140
- Met Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser 145 150 155 160
- His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu 165 170 175
- Ala Gln Pro Ser Gly Gly Ser Gly Gly Ser Gln Ser Phe Leu Lys 180 185 190
- Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln 195 200 205
- Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val 210 215 220

Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys 225 230 235 240

Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser 245 250 255

Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser 260 265 270

Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp 275 280 285

Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro 290 295 300

Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala 305 310 315

#### (2) INFORMATION FOR SEQ ID NO:176:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:176:

Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15

Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser 20 25 30

Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val 35 40 45

Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu 50 55 60

Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg 65 70 75 80

His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys 85 90 95

Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Tyr
100 105 110

Val Glu Gly Gly Gly Ser Pro Gly Gly Gly Ser Gly Gly Gly Ser 115 120 125

Asn Met Ala Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly 130 135 140

His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln 145 150 155 160

Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe 165 170 175

Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu 180 185 190

Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr
195 200 205

Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln 210 215 220

Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg Arg 225 230 235 240

Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu Val 245 250 255

Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Thr Pro Leu Gly Pro 260 265 270

Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val 275 280 285

Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala 290 295 300

Thr

### (2) INFORMATION FOR SEQ ID NO:177:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 320 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:177:

Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15

Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser

Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln Tyr 100 Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn 135 Met Ala Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly His 150 145 Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala 170 Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu 185 Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro 225 230 235 Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala 245 250 Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu Val Ser 265 Tyr Arg Val Leu Arg His Leu Ala Gln Pro Thr Pro Leu Gly Pro Ala 275 280 Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg 295 Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr 315

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:178:

Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15

Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser 20 25 30

Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val 35 40 45

Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu 50 55 60

Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg 75 80

His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys 85 90 95

Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln Tyr 100 105 110

Val Glu Gly Gly Gly Ser Pro Gly Gly Gly Ser Gly Gly Ser 115 120 125

Asn Met Ala Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp 130 135 140

Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly
145 150 155 160

Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala 165 170 175

Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu 180 185 190

Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln
195 200 205

Pro Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu 210 215 220

Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu

225 230 235 240

Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu 245 250 255

Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser 260 265 270

Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His 275 280 285

Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile 290 295 300

Ser

#### (2) INFORMATION FOR SEQ ID NO:179:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 320 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:179:

Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15

Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser 20 25 30

Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val
35 40 45

Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu 50 55 60

Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg 65 70 75 80

His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys 85 90 95

Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Tyr 100 105 110

Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile Ser 115 120 125

Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn

130 135 140

Met Ala Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val 150 155 Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met 165 170 Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser 185 Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln 200 205 Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys 230 235 Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys 275 280 285 Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser 310 315

#### (2) INFORMATION FOR SEQ ID NO:180:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:180:

Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15

Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser 20 25 30

Ile	Leu	Met 35	Asp	Arg	Asn	Leu	Arg 40	Leu	Pro	Asn	Leu	Glu 45	Ser	Phe	Va]
Arg	Ala 50	Val	Lys	Asn	Leu	Glu 55	Asn	Ala	Ser	Gly	Ile 60	Glu	Ala	Ile	Leu
Arg 65	Asn	Leu	Gln	Pro	Cys 70	Leu	Pro	Ser	Ala	Thr 75	Ala	Ala	Pro	Ser	Arç 80
His	Pro	Ile	Ile	Ile 85	Lys	Ala	Gly	Asp	Trp 90	Gln	Glu	Phe	Arg	Glu 95	Lys
Leu	Thr	Phe	Tyr 100	Leu	Val	Thr	Leu	Glu 105	Gln	Ala	Gln	Glu	Gln 110	Gln	Туг
Val	Glu	Gly 115	Gly	Gly	Gly	Ser	Pro 120	Gly	Gly	Gly	Ser	Gly 125	Gly	Gly	Sei
Asn	Met 130	Ala	Met	Ala	Pro	Ala 135	Leu	Gln	Pro	Thr	Gln 140	Gly	Ala	Met	Pro
Ala 145	Phe	Ala	Ser	Ala	Phe 150	Gln	Arg	Arg	Ala	Gly 155	Gly	Val	Leu	Val	Ala 160
Ser	His	Leu	Gln	Ser 165	Phe	Leu	Glu	Val	Ser 170	Tyr	Arg	Val	Leu	Arg 175	His
Leu	Ala	Gln	Pro 180	Thr	Pro	Leu	Gly	Pro 185	Ala	Ser	Ser	Leu	Pro 190	Gln	Ser
Phe	Leu	Leu 195	Lys	Ser	Leu	Glu	Gln 200	Val	Arg	Lys	Ile	Gln 205	Gly	Asp	Gly
Ala	Ala 210	Leu	Gln	Glu	Lys	Leu 215	Cys	Ala	Thr	Tyr	Lys 220	Leu	Cys	His	Pro
Glu 225	Glu	Leu	Val	Leu	Leu 230	Gly	His	Ser	Leu	Gly 235	Ile	Pro	Trp	Ala	Pro 240
Leu	Ser	Ser	Cys	Pro 245	Ser	Gln	Ala	Leu	Gln 250	Leu	Ala	Gly	Cys	Leu 255	Ser
Gln	Leu	His	Ser 260	Gly	Leu	Phe	Leu	Tyr 265	Gln	Gly	Leu	Leu	Gln 270	Ala	Leu
Glu	Gly	Ile 275	Ser	Pro	Glu	Leu	Gly 280	Pro	Thr	Leu	Asp	Thr 285	Leu	Gln	Let
Asp	Val 290	Ala	Asp	Phe	Ala	Thr 295	Thr	Ile	Trp	Gln	Gln 300	Met	Glu	Glu	Leu
Gly 305															

# (2) INFORMATION FOR SEQ ID NO:181:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 320 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:181:

Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15

Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser 20 25 30

Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val 35 40 45

Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu 50 55 60

Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg 65 70 75 80

His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys 85 90 95

Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Tyr 100 105 110

Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile Ser 115 120 125

Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn 130 135 140

Met Ala Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala 145 150 155 160

Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser 165 170 175

His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu 180 185 190

Ala Gln Pro Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe 195 200 205

Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala 210 215 220

Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu 225 230 235 240 Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu 245 250 255

Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln 260 265 270

Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu 275 280 285

Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp 290 295 300

Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly 305 310 315 320

#### (2) INFORMATION FOR SEQ ID NO:182:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:182:

Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15

Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser 20 25 30

Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val 35 40 45

Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu 50 55 60

Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg 65 70 75 80

His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys 85 90 95

Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln Tyr 100 105 110

Val Glu Gly Gly Gly Ser Pro Gly Gly Gly Ser Gly Gly Gly Ser 115 120 125

Asn Met Ala Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln 130 135 140 Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu 145 150 155 160

Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Thr Pro Leu 165 170 175

Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Ser Leu Glu 180 185 190

Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu 195 200 205

Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly 210 215 220

His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln 225 230 235 240

Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe 245 250 255

Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu 260 265 270

Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr 275 280 285

Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln 290 295 300

Pro 305

#### (2) INFORMATION FOR SEQ ID NO:183:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 320 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:183:

Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15

Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser

Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val

Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg 70 His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Tyr 105 Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile Ser 120 Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn Met Ala Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg 155 Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu 170 Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Thr Pro Leu Gly 180 185 Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln 200 Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly His 235 Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu 265 Tyr Gln Gly Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly 280 Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr 290 295 Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro 310 315

#### (2) INFORMATION FOR SEQ ID NO:184:

# (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 305 amino acids

- (B) TYPE: amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:184:

Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15

Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser 20 25 30

Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val 35 40 45

Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu 50 60

Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg
65 70 75 80

His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys 85 90 95

Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Tyr 100 105 110

Val Glu Gly Gly Gly Ser Pro Gly Gly Gly Ser Gly Gly Gly Ser 115 120 125

Asn Met Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala 130 \$135\$ 140

Ser His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His 145 150 155 160

Leu Ala Gln Pro Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser 165 170 175

Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly
180 185 190

Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro
195 200 205

Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro 210 215 220

Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser 225 230 235 240

Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu

245 250 255

Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu 260 265 270

Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu 275 280 285

Gly Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe 290 295 300

Ala 305

## (2) INFORMATION FOR SEQ ID NO:185:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 320 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:185:

Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro 1 5 10 15

Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser 20 25 30

Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu 50 55 60

Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg 65 70 75 80

His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys
85 90 95

Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln Tyr 100 105 110

Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile Ser 115 120 125

Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn 130 135 140

Met Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser

## (2) INFORMATION FOR SEQ ID NO:186:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 321 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:186:

Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser Ile Leu Met Asp 1 5 10 15

Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val Arg Ala Val Lys
20 25 30

Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu Arg Asn Leu Gln 35 40 45

Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg His Pro Ile Ile 50 Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln Gly Gly Ser Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro Pro Ala Pro Leu Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser 120 Gly Pro Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His 140 135 Lys Ser Pro Asn Met Ala Thr Gln Gly Ala Met Pro Ala Phe Ala Ser 150 155 Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln 170 Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro 185 Ser Gly Gly Ser Gly Gly Ser Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu 215 Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly 225 230 235 His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln 250 Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe 260 265 270 Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln 305 310 315 320 Pro

### (2) INFORMATION FOR SEQ ID NO:187:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:187:

- Asn Ala Ser Gly Ile Glu Ala Ile Leu Arg Asn Leu Gln Pro Cys Leu 1 5 10 15
- Pro Ser Ala Thr Ala Ala Pro Ser Arg His Pro Ile Ile Lys Ala 20 25 30
- Gly Asp Trp Glu Phe Arg Glu Lys Leu Thr Phe Tyr Leu Val Thr 35 40 45
- Leu Glu Gln Ala Gln Glu Gln Gln Gly Gly Gly Ser Asn Cys Ser Ile 50 55 60
- Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro Pro Ala Pro Leu 65 70 75 80
- Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser Ile Leu Met Asp 85 90 95
- Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val Arg Ala Val Lys
  100 105 110
- Asn Leu Glu Tyr Val Glu Gly Gly Gly Gly Ser Pro Gly Glu Pro Ser 115 120 125
- Gly Pro Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His 130 135 140
- Lys Ser Pro Asn Met Ala Thr Gln Gly Ala Met Pro Ala Phe Ala Ser 145 150 155 160
- Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln 165 170 175
- Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro 180 185 190
- Ser Gly Gly Ser Gly Ser Gln Ser Phe Leu Leu Lys Ser Leu Glu 195 200 205
- Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu 210 215 220
- Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly 225 230 235 240

His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln 245 250 255

Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe 260 265 270

Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu 275 280 285

Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr 290 295 300

Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln 305 310 315 320

Pro

## (2) INFORMATION FOR SEQ ID NO:188:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 321 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:188:

Ala Pro Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu

5 10 15

Phe Arg Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln 20 25 30

Glu Gln Gly Gly Gly Ser Asn Cys Ser Ile Met Ile Asp Glu Ile 35 40 45

Ile His His Leu Lys Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn 50 55 60

Leu Asn Asp Glu Asp Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu 65 70 75 80

Pro Asn Leu Glu Ser Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala 85 90 95

Ser Gly Ile Glu Ala Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser 100 105 110

Ala Thr Ala Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser 115 120 125

- Gly Pro Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His 130 135 140
- Lys Ser Pro Asn Met Ala Thr Gln Gly Ala Met Pro Ala Phe Ala Ser 145 150 155 160
- Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln
  165 170 175
- Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro 180 185 190
- Ser Gly Gly Ser Gly Gly Ser Gln Ser Phe Leu Leu Lys Ser Leu Glu
  195 200 205
- Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu 210 215 220
- Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly 225 230 235 240
- His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln 245 250 255
- Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe 260 265 270
- Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu 275 280 285
- Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr 290 295 300
- Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln 305 310 315 320

Pro

#### (2) INFORMATION FOR SEQ ID NO:189:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 321 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:189:
- Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys Leu Thr Phe Tyr Leu Val

Thr Leu Glu Gln Ala Gln Glu Gln Gly Gly Gly Ser Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro Pro Ala Pro 40 Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg His Pro Ile Ile Ile Lys Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser 120 Gly Pro Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His 130 135 Lys Ser Pro Asn Met Ala Thr Gln Gly Ala Met Pro Ala Phe Ala Ser 150 155 Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln 170 Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Ser Gly Gly Ser Gly Ser Gln Ser Phe Leu Leu Lys Ser Leu Glu 200 Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu 210 215 Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly 230 235 His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln 245 250 Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe 260 265 Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu 275 280 Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr 295 300 Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln

305 310 315 320

Pro

### (2) INFORMATION FOR SEQ ID NO:190:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 329 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:190:

Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser Ile Leu Met Asp

1 10 15

Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val Arg Ala Val Lys
20 25 30

Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu Arg Asn Leu Gln 35 40 45

Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg His Pro Ile Ile 50 55 60

Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys Leu Thr Phe Tyr 65 70 75 80

Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gly Gly Gly Ser Gly 85 90 95

Gly Gly Ser Gly Gly Ser Asn Cys Ser Ile Met Ile Asp Glu Ile 100 105 110

Ile His His Leu Lys Arg Pro Pro Ala Pro Leu Tyr Val Glu Gly Gly 115 120 125

Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile Ser Thr Ile Asn Pro 130 135 140

Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn Met Ala Thr Gln 145 150 155 160

Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly
165 170 175

Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg 180 185 190

Val Leu Arg His Leu Ala Gln Pro Ser Gly Gly Ser Gly Gly Ser Gln

Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp 210 215 220

Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His 225 230 235 240

Pro Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala 245 250 255

Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu 260 265 270

Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala 275 280 285

Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln 290 295 300

Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu 305 310 315 320

Leu Gly Met Ala Pro Ala Leu Gln Pro 325

# (2) INFORMATION FOR SEQ ID NO:191:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 329 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:191:

Asn Ala Ser Gly Ile Glu Ala Ile Leu Arg Asn Leu Gln Pro Cys Leu 1 5 10 15

Pro Ser Ala Thr Ala Ala Pro Ser Arg His Pro Ile Ile Lys Ala 20 25 30

Gly Asp Trp Gln Glu Phe Arg Glu Lys Leu Thr Phe Tyr Leu Val Thr 35 40 45

Leu Glu Gln Ala Gln Glu Gln Gly Gly Gly Ser Gly Gly Gly Ser 50 60

Gly Gly Gly Ser Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His 65 70 75 80

Leu Lys Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp

Glu	Asp	Val	Ser 100	Ile	Leu	Met	Asp	Arg 105	Asn	Leu	Arg	Leu	Pro 110	Asn	Let
Glu	Ser	Phe 115	Val	Arg	Ala	Val	Lys 120	Asn	Leu	Glu	Tyr	Val 125	Glu	Gly	Gly
Gly	Gly 130	Ser	Pro	Gly	Glu	Pro 135	Ser	Gly	Pro	Ile	Ser 140	Thr	Ile	Asn	Pro
Ser 145	Pro	Pro	Ser	Lys	Glu 150	Ser	His	Lys	Ser	Pro 155	Asn	Met	Ala	Thr	Glr 160
Gly	Ala	Met	Pro	Ala 165	Phe	Ala	Ser	Ala	Phe 170	Gln	Arg	Arg	Ala	Gly 175	Gly
Val	Leu	Val	Ala 180	Ser	His	Leu	Gln	Ser 185	Phe	Leu	Glu	Val	Ser 190	Tyr	Arç
Val	Leu	Arg 195	His	Leu	Ala	Gln	Pro 200	Ser	Gly	Gly	Ser	Gly 205	Gly	Ser	Glr
Ser	Phe 210	Leu	Leu	Lys	Ser	Leu 215	Glu	Gln	Val	Arg	Lys 220	Ile	Gln	Gly	Asp
Gly 225	Ala	Ala	Leu	Gln	Glu 230	Lys	Leu	Cys	Ala	Thr 235	Tyr	Lys	Leu	Cys	His 240
Pro	Glu	Glu	Leu	Val 245	Leu	Leu	Gly	His	Ser 250	Leu	Gly	Ile	Pro	Trp 255	Ala
Pro	Leu	Ser	Ser 260	Cys	Pro	Ser	Gln	Ala 265	Leu	Gln	Leu	Ala	Gly 270	Cys	Leu
Ser	Gln	Leu 275	His	Ser	Gly	Leu	Phe 280	Leu	Tyr	Gln	Gly	Leu 285	Leu	Gln	Ala
Leu	Glu 290	Gly	Ile	Ser	Pro	Glu 295	Leu	Gly	Pro	Thr	Leu 300	Asp	Thr	Leu	Glr
Leu 305	Asp	Val	Ala	Asp	Phe 310	Ala	Thr	Thr	Ile	Trp 315	Gln	Gln	Met	Glu	Glu 320
Leu	Gly	Met	Ala	Pro	Ala	Leu	Gln	Pro							

# (2) INFORMATION FOR SEQ ID NO:192:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 329 amino acids

325

- (B) TYPE: amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:192:

- Ala Pro Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu

  1 10 15
- Phe Arg Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln 20 25 30
- Glu Gln Gly Gly Gly Ser Gly Gly Gly Ser Gly Gly Ser Asn 35 40 45
- Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro Pro 50 55 60
- Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser Ile 65 70 75 80
- Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val Arg 85 90 95
- Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu Arg 100 105 110
- Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Tyr Val Glu Gly Gly
  115 120 125
- Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile Ser Thr Ile Asn Pro 130 135 140
- Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn Met Ala Thr Gln 145 150 155 160
- Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly 165 170 175
- Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg 180 185 190
- Val Leu Arg His Leu Ala Gln Pro Ser Gly Gly Ser Gly Gly Ser Gln 195 200 205
- Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp 210 215 220
- Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His 225 230 235 240
- Pro Glu Glu Leu Val Leu Gly His Ser Leu Gly Ile Pro Trp Ala 245 250 255
- Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu 260 265 270
- Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala

275 280 285

Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln 290 295 300

Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu 305 310 315 320

Leu Gly Met Ala Pro Ala Leu Gln Pro

## (2) INFORMATION FOR SEQ ID NO:193:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 299 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193:

Gly Gly Ser Gly Gly Ser Asn Cys Ser Ile Met Ile Asp Glu Ile 1 5 10 15

Ile His His Leu Lys Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn 20 25 30

Leu Asn Asp Glu Asp Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu 35 40 45

Pro Asn Leu Glu Ser Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala 50 60

Ser Gly Ile Glu Ala Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser 70 75 80

Ala Thr Ala Ala Pro Ser Arg His Pro Ile Ile Ile Lys Tyr Val Glu 85 90 95

Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile Ser Thr Ile
100 105 110

Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn Met Ala 115 120 125

Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala 130 135 140

Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu Val Ser 145 150 155 160

Tyr Arg Val Leu Arg His Leu Ala Gln Pro Ser Gly Gly Ser Gly Gly

165 170 175

Ser Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln 180 185 190

Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu 195 200 205

Cys His Pro Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro 210 215 220

Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly 225 230 235 240

Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu 245 250 255

Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr 260 265 270

Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met 275 280 285

Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro 290 295

# (2) INFORMATION FOR SEQ ID NO:194:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 329 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:194:

Met Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys 1 5 10 15

Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp 20 25 30

Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser 35 40 45

Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala 50 55 60

Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro 65 70 75 80

Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg

GI Fr GI GI Th 22 GI An Va As																
Prince of the second of the se	Glu	Lys	Leu	Thr 100	Phe	Tyr	Leu	Val	Thr 105	Leu	Glu	Gln	Ala	Gln 110	Glu	Gln
Pri 14 GJ GJ GJ Ar Va As Le 30	Gln	Tyr	Val 115	Glu	Gly	Gly	Gly	Gly 120	Ser	Pro	Gly	Glu	Pro 125	Ser	Gly	Pro
GI GI GI Ph Lee Th 222 GI Va As	Ile	Ser 130	Thr	Ile	Asn	Pro	Ser 135	Pro	Pro	Ser	Lys	Glu 140	Ser	His	Lys	Ser
GI GI Ph Lee Th 222 GI Va As	Pro	Asn	Met	Ala	Tyr	Lys	Leu	Cys	His	Pro	Glu	Glu	Leu	Val	Leu	Leu
GI Ph Lee Th 222 GI An Va As	145					150					155					160
Ph Lee Th 22 Gl An Va As	Gly	His	Ser	Leu	Gly 165	Ile	Pro	Trp	Ala	Pro 170	Leu	Ser	Ser	Cys	Pro 175	Ser
Lea Th 222 GJ Air Va	Gln	Ala	Leu	Gln 180	Leu	Ala	Gly	Cys	Leu 185	Ser	Gln	Leu	His	Ser 190	Gly	Leu
The 222 GI Array Value Ass	Phe	Leu	Tyr 195	Gln	Gly	Leu	Leu	Gln 200	Ala	Leu	Glu	Gly	Ile 205	Ser	Pro	Glu
Q22 G1 A1 Va As	Leu	Gly 210	Pro	Thr	Leu	Asp	Thr 215	Leu	Gln	Leu	Asp	Val 220	Ala	Asp	Phe	Ala
As Le 30	Thr 225	Thr	Ile	Trp	Gln	Gln 230	Met	Glu	Glu	Leu	Gly 235	Met	Ala	Pro	Ala	Leu 240
Vá As Le 30	Gln	Pro	Thr	Gln	Gly 245	Ala	Met	Pro	Ala	Phe 250	Ala	Ser	Ala	Phe	Gln 255	Arg
As Le	Arg	Ala	Gly	Gly 260	Val	Leu	Val	Ala	Ser 265	His	Leu	Gln	Ser	Phe 270	Leu	Glu
Le 30	Val	Ser	Tyr 275	Arg	Val	Leu	Arg	His 280	Leu	Ala	Gln	Pro	Gly 285	Gly	Gly	Ser
30	Asp	Met 290	Ala	Thr	Pro	Leu	Gly 295	Pro	Ala	Ser	Ser	Leu 300	Pro	Gln	Ser	Phe
Al	Leu 305	Leu	Lys	Ser	Leu	Glu 310	Gln	Val	Arg	Lys	Ile 315	Gln	Gly	Asp	Gly	Ala 320
	Ala	Leu	Gln	Glu	Lys 325	Leu	Cys	Ala	Thr							

# (2) INFORMATION FOR SEQ ID NO:195:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 329 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:195:

- Met Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys 1 5 10 15
- Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp 20 25 30
- Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser 35 40 45
- Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala 50 60
- Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro 65 70 75 80
- Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg 85 90 95
- Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln
  100 105 110
- Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro 115 120 125
- Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser 130 135 140
- Pro Asn Met Ala Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu 145 150 155 160
- Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu 165 170 175
- Gly Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe 180 185 190
- Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His 195 200 205
- Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala 210 215 220
- Gln Pro Gly Gly Gly Ser Asp Met Ala Thr Pro Leu Gly Pro Ala Ser 225 230 235 240
- Ser Leu Pro Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys 245 250 255
- Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr 260 265 270

Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly 275 280 285

Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu 290 295 300

Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly 305 310 315 320

Leu Leu Gln Ala Leu Glu Gly Ile Ser 325

## (2) INFORMATION FOR SEQ ID NO:196:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 329 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:196:

Met Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys 1 5 10 15

Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp 20 25 30

Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser 35 40 45

Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala 50 55 60

Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro 65 70 75 80

Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg 85 90 95

Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln
100 105 110

Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro 115 120 125

Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser 130 135 140

Pro Asn Met Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val 145 150 155 160 Ala Ser His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg 165 170 175

His Leu Ala Gln Pro Gly Gly Gly Ser Asp Met Ala Thr Pro Leu Gly 180 185 190

Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln 195 200 205

Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys 210 215 220

Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly His 225 230 235 240

Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala 245 250 255

Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu 260 265 270

Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly 275 280 285

Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr 290 295 300

Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro 305 310 315 320

Thr Gln Gly Ala Met Pro Ala Phe Ala 325

## (2) INFORMATION FOR SEQ ID NO:197:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 329 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:197:

Met Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys 1 5 10 15

Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp 20 25 30

Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser 35 40 45

Phe	Val 50	Arg	Ala	Val	Lys	Asn 55	Leu	Glu	Asn	Ala	Ser 60	Gly	Ile	Glu	Ala
Ile 65	Leu	Arg	Asn	Leu	Gln 70	Pro	Cys	Leu	Pro	Ser 75	Ala	Thr	Ala	Ala	Pro 80
Ser	Arg	His	Pro	Ile 85	Ile	Ile	Lys	Ala	Gly 90	Asp	Trp	Gln	Glu	Phe 95	Arg
Glu	Lys	Leu	Thr 100	Phe	Tyr	Leu	Val	Thr 105	Leu	Glu	Gln	Ala	Gln 110	Glu	Gln
Gln	Tyr	Val 115	Glu	Gly	Gly	Gly	Gly 120	Ser	Pro	Gly	Glu	Pro 125	Ser	Gly	Pro
ļle	Ser 130	Thr	Ile	Asn	Pro	Ser 135	Pro	Pro	Ser	Lys	Glu 140	Ser	His	Lys	Ser
Pro 145	Asn	Met	Ala	Met	Ala 150	Pro	Ala	Leu	Gln	Pro 155	Thr	Gln	Gly	Ala	Met 160
Pro	Ala	Phe	Ala	Ser 165	Ala	Phe	Gln	Arg	Arg 170	Ala	Gly	Gly	Val	Leu 175	Val
Ala	Ser	His	Leu 180	Gln	Ser	Phe	Leu	Glu 185	Val	Ser	Tyr	Arg	Val 190	Leu	Arg
His	Leu	Ala 195	Gln	Pro	Gly	Gly	Gly 200	Ser	Asp	Met	Ala	Thr 205	Pro	Leu	Gly
Pro	Ala 210	Ser	Ser	Leu	Pro	Gln 215	Ser	Phe	Leu	Leu	Lys 220	Ser	Leu	Glu	Gln
Val 225	Arg	Lys	Ile	Gln	Gly 230	Asp	Gly	Ala	Ala	Leu 235	Gln	Glu	Lys	Leu	Cys 240
Ala	Thr	Tyr	Lys	Leu 245	Cys	His	Pro	Glu	Glu 250	Leu	Val	Leu	Leu	Gly 255	His
Ser	Leu	Gly	Ile 260	Pro	Trp	Ala	Pro	Leu 265	Ser	Ser	Cys	Pro	Ser 270	Gln	Ala
Leu	Gln	Leu 275	Ala	Gly	Cys	Leu	Ser 280	Gln	Leu	His	Ser	Gly 285	Leu	Phe	Leu
Tyr	Gln 290	Gly	Leu	Leu	Gln	Ala 295	Leu	Glu	Gly	Ile	Ser 300	Pro	Glu	Leu	Gly
Pro 305	Thr	Leu	Asp	Thr	Leu 310	Gln	Leu	Asp	Val	Ala 315	Asp	Phe	Ala	Thr	Thr 320
Ile	Trp	Gln	Gln	Met 325	Glu	Glu	Leu	Gly							

# (2) INFORMATION FOR SEQ ID NO:198:

# (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:198:

- Met Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys

  1 10 15
- Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp 20 25 30
- Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser 35 40 45
- Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala 50 55 60
- Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro 65 70 75 80
- Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg 85 90 95
- Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln 100 105 110
- Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro 115 120 125
- Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser 130 135 140
- Pro Asn Met Ala Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe 145 150 155 160
- Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe 165 170 175
- Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Gly Gly
  180 185 190
- Gly Ser Asp Met Ala Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln
  195 200 205
- Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp 210 215 220
- Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His 225 230 235 240

Pro Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala 245 250 255

Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu 260 265 270

Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala 275 280 285

Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln 290 295 300

Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu 305 310 315 320

Leu Gly Met Ala Pro Ala Leu Gln Pro 325

## (2) INFORMATION FOR SEQ ID NO:199:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 319 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:199:

Met Ala Asn Cys Ser Asn Met Ile Asp Glu Ile Ile Thr His Leu Lys

1 10 15

Gln Pro Pro Leu Pro Leu Leu Asp Phe Asn Asn Leu Asn Gly Glu Asp 20 25 30

Gln Asp Ile Leu Met Asp Asn Asn Leu Arg Arg Pro Asn Leu Glu Ala 35 40 45

Phe Asn Arg Ala Val Lys Ser Leu Gln Asn Ala Ser Ala Ile Glu Ser 50 55 60

Ile Leu Lys Asn Leu Leu Pro Cys Leu Pro Leu Ala Thr Ala Ala Pro 65 70 75 80

Thr Arg His Pro Ile His Ile Lys Asp Gly Asp Trp Asn Glu Phe Arg 85 90 95

Arg Lys Leu Thr Phe Tyr Leu Lys Thr Leu Glu Asn Ala Gln Ala Gln
100 105 110

Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro 115 120 125 Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser 130 135 140

Pro Asn Met Ala Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe 145 150 155 160

Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe 165 170 175

Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Ser Gly
180 185 190

Gly Ser Gly Gly Ser Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val 195 200 205

Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala 210 215 220

Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly His Ser 225 230 235 240

Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu 245 250 255

Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr 260 265 270

Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro 275 280 285

Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile 290 295 300

Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro 305 310 315

# (2) INFORMATION FOR SEQ ID NO:200:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 322 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:200:

Met Ala Asn Cys Ser Asn Met Ile Asp Glu Ile Ile Thr His Leu Lys 1 5 10 15

Gln Pro Pro Leu Pro Leu Leu Asp Phe Asn Asn Leu Asn Gly Glu Asp

GIN	Asp	35	Leu	мес	GIU	ASII	40	Leu	Arg	Arg	PIO	45	Leu	GIU	Ата
Phe	Asn 50	Arg	Ala	Val	Lys	Ser 55	Leu	Gln	Asn	Ala	Ser 60	Ala	Ile	Glu	Ser
Ile 65	Leu	Lys	Asn	Leu	Leu 70	Pro	Cys	Leu	Pro	Leu 75	Ala	Thr	Ala	Ala	Pro 80
Thr	Arg	His	Pro	Ile 85	Ile	Ile	Arg	Asp	Gly 90	Asp	Trp	Asn	Glu	Phe 95	Arg
Arg	Lys	Leu	Thr 100	Phe	Tyr	Leu	Lys	Thr 105	Leu	Glu	Asn	Ala	Gln 110	Ala	Gln
Gln	Tyr	Val 115	Glu	Gly	Gly	Gly	Gly 120	Ser	Pro	Gly	Glu	Pro 125	Ser	Gly	Pro
Ile	Ser 130	Thr	Ile	Asn	Pro	Ser 135	Pro	Pro	Ser	Lys	Glu 140	Ser	His	Lys	Ser
Pro 145	Asn	Met	Ala	Thr	Gln 150	Gly	Ala	Met	Pro	Ala 155	Phe	Ala	Ser	Ala	Phe 160
Gln	Arg	Arg	Ala	Gly 165	Gly	Val	Leu	Val	Ala 170	Ser	His	Leu	Gln	Ser 175	Phe
Leu	Glu	Val	Ser 180	Tyr	Arg	Val	Leu	Arg 185	His	Leu	Ala	Gln	Pro 190	Thr	Pro
Leu	Gly	Pro 195	Ala	Ser	Ser	Leu	Pro 200	Gln	Ser	Phe	Leu	Leu 205	Lys	Ser	Leu
Glu	Gln 210	Val	Arg	Lys	Ile	Gln 215	Gly	Asp	Gly	Ala	Ala 220	Leu	Gln	Glu	Lys
Leu 225	Cys	Ala	Thr	Tyr	Lys 230	Leu	Cys	His	Pro	Glu 235	Glu	Leu	Val	Leu	Leu 240
Gly	His	Ser	Leu	Gly 245	Ile	Pro	Trp	Ala	Pro 250	Leu	Ser	Ser	Cys	Pro 255	Ser
Gln	Ala	Leu	Gln 260	Leu	Ala	Gly	Cys	Leu 265	Ser	Gln	Leu	His	Ser 270	Gly	Leu
Phe	Leu	Tyr 275	Gln	Gly	Leu	Leu	Gln 280	Ala	Leu	Glu	Gly	Ile 285	Ser	Pro	Glu
Leu	Gly 290	Pro	Thr	Leu	Asp	Thr 295	Leu	Gln	Leu	Asp	Val 300	Ala	Asp	Phe	Ala
Thr 305	Thr	Ile	Trp	Gln	Gln 310	Met	Glu	Glu	Leu	Gly 315	Met	Ala	Pro	Ala	Leu 320

Gln Pro

### (2) INFORMATION FOR SEQ ID NO:201:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 319 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:201:

Met Ala Asn Cys Ser Asn Met Ile Asp Glu Ile Ile Thr His Leu Lys 1 5 10 15

Gln Pro Pro Leu Pro Leu Leu Asp Phe Asn Asn Leu Asn Gly Glu Asp
20 25 30

Gln Asp Ile Leu Met Glu Asn Asn Leu Arg Arg Pro Asn Leu Glu Ala 35 40 45

Phe Asn Arg Ala Val Lys Ser Leu Gln Asn Ala Ser Ala Ile Glu Ser 50 55 60

Ile Leu Lys Asn Leu Leu Pro Cys Leu Pro Leu Ala Thr Ala Ala Pro 65 70 75 80

Thr Arg His Pro Ile Ile Ile Arg Asp Gly Asp Trp Asn Glu Phe Arg 85 90 95

Arg Lys Leu Thr Phe Tyr Leu Lys Thr Leu Glu Asn Ala Gln Ala Gln 100 105 110

Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro 115 120 125

Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser 130 135 140

Pro Asn Met Ala Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe 145 150 155 160

Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe 165 170 175

Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Ser Gly
180 185 190

Gly Ser Gly Gly Ser Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val 195 200 205

Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala 210 215 220

Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly His Ser 225 230 235 240

Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu 245 250 255

Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr 260 265 270

Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro 275 280 285

Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile 290 295 300

Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro 305 310 315

## (2) INFORMATION FOR SEQ ID NO:202:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 322 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:202:

Met Ala Asn Cys Ser Asn Met Ile Asp Glu Ile Ile Thr His Leu Lys 1 5 10 15

Gln Pro Pro Leu Pro Leu Leu Asp Phe Asn Asn Leu Asn Gly Glu Asp 20 25 30

Gln Asp Ile Leu Met Asp Asn Asn Leu Arg Arg Pro Asn Leu Glu Ala 35 40 45

Phe Asn Arg Ala Val Lys Ser Leu Gln Asn Ala Ser Ala Ile Glu Ser
50 55 60

Ile Leu Lys Asn Leu Leu Pro Cys Leu Pro Leu Ala Thr Ala Ala Pro 65 70 75 80

Thr Arg His Pro Ile His Ile Lys Asp Gly Asp Trp Asn Glu Phe Arg 85 90 95

Arg Lys Leu Thr Phe Tyr Leu Lys Thr Leu Glu Asn Ala Gln Ala Gln 100 105 110

Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro

115 120 125

Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser 135 Pro Asn Met Ala Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe 150 155 Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe 165 170 Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Thr Pro 180 185 Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Ser Leu 200 Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys 215 Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser 250 Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu 260 265 Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu 280 Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala 295 Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu

315

320

305

Gln Pro

### (2) INFORMATION FOR SEQ ID NO: 203:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 306 amino acids

310

- (B) TYPE: amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:203:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 90 Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 120 Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 135 Asn Met Glu Val His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val 150 Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala 165 170 Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala 180 185 Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln 200 Leu Ser Gly Gln Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu 215 210 Gly Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg 250 Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly 260 Gly Asn Met Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu 280 Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln 290 295 300

### (2) INFORMATION FOR SEQ ID NO: 204:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 306 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:204:
- Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg

  1 10 15
- Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30
- Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45
- Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60
- Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80
- Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95
- Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110
- Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125
- Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140
- Asn Met Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu 145 150 155 160
- Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu 165 170 175
- Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln
  180 185 190
- Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
  195 200 205

Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu 210 215 220

Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe 225 230 235 240

Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu 245 250 255

Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Gly Asn Met Ala 260 265 270

Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu 275 280 285

Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val 290 295 300

His Pro 305

### (2) INFORMATION FOR SEQ ID NO:205:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 306 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:205:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg 1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln

100 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

Asn Met Val Leu Leu Pro Ala Val Asp Phe Ser Leu Gly Glu Trp Lys 145 150 155 160

Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu Gly Ala Val Thr 165 170 175

Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln Leu Gly Pro Thr 180 185 190

Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln Val Arg Leu Leu 195 200 205

Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu Pro Pro Gln Gly 210 215 220

Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln 225 230 235 240

His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu Val Gly Gly Ser 245 250 255

Thr Leu Cys Val Arg Glu Phe Gly Gly Asn Met Ala Ser Pro Ala Pro 260 265 270

Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu Arg Asp Ser His  $275 \hspace{1.5cm} 280 \hspace{1.5cm} 285$ 

Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val His Pro Leu Pro 290 295 300

Thr Pro

# (2) INFORMATION FOR SEQ ID NO:206:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 306 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:206:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg

15

5

Pro Pro Ala Pro Leu Leu Asp Pro 25 Asn Asn Leu Asp Asp Glu Asp Val 25

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

Asn Met Ala Val Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln Met Glu 145 150 155 160

Glu Thr Lys Ala Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Glu 165 170 175

Gly Val Met Ala Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser 180 185 190

Leu Leu Gly Gln Leu Ser Gly Gln Val Arg Leu Leu Leu Gly Ala Leu 195 200 205

Gln Ser Leu Leu Gly Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala 210 220

His Lys Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg 225 230 235 240

Gly Lys Val Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val 245 250 255

Arg Glu Phe Gly Gly Asn Met Ala Ser Pro Ala Pro Pro Ala Cys Asp 260 265 270

Leu Arg Val Leu Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser 275 280 285

Arg Leu Ser Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val Leu 290 295 300

Leu Pro

## (2) INFORMATION FOR SEQ ID NO:207:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 306 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:207:
- Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg
  1 5 10 15
- Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45
- Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60
- Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80
- Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95
- Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110
- Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125
- Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140
- Asn Met Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln Met Glu Glu Thr 145 150 155 160
- Lys Ala Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Leu Glu Gly Val 165 170 175
- Met Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu 180 185 190
- Gly Gln Leu Ser Gly Gln Val Arg Leu Leu Leu Gly Ala Leu Gln Ser 195 200 205
- Leu Leu Gly Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys

210 215 220

Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys 225 230 235 240

Val Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu 245 250 255

Phe Gly Gly Asn Met Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg 260 265 270

Val Leu Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu 275 280 285

Ser Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val Leu Leu Pro 290 295 300

Ala Val

### (2) INFORMATION FOR SEQ ID NO:208:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 306 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:208:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg
1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

Asn Met Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp 145 150 155 160

Ile Leu Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg 165 170 175

Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser 180 185 190

Gly Gln Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr 195 200 205

Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala 210 215 220

Ile Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu 225 230 235 240

Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Gly Asn 245 250 255

Met Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys 260 265 270

Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro 275 280 285

Glu Val His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe 290 295 300

Ser Leu 305

## (2) INFORMATION FOR SEQ ID NO:209:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 306 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:209:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg 1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 90 Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 105 Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 120 Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 Asn Met Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln 165 170 Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile 185 Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met 200 Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Gly Asn Met 210 Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu 230 235 Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu 250 Val His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser 260 Leu Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile 280 Leu Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly 295 Gln Leu

## (2) INFORMATION FOR SEQ ID NO:210:

305

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 306 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:210:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg

1 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

Asn Met Gly Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys
145 150 155 160

Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys 165 170 175

Val Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu  $180 \,$   $185 \,$   $190 \,$ 

Phe Gly Gly Asn Met Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg 195 200 205

Val Leu Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu 210 215 220

Ser Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val Leu Leu Pro

225 230 235 240

Ala Val Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln Met Glu Glu Thr 245 250 255

Lys Ala Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Glu Gly Val 260 265 270

Met Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu 275 280 285

Gly Gln Leu Ser Gly Gln Val Arg Leu Leu Leu Gly Ala Leu Gln Ser 290 295 300

Leu Leu 305

### (2) INFORMATION FOR SEQ ID NO:211:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 306 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:211:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg 1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro

130 135 140

Asn Met Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe Leu 145 150 155 160

Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu Val 165 170 175

Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Gly Asn Met Ala Ser 180 185 190

Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu Arg 195 200 205

Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val His 210 215 220

Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu Gly 225 230 235 240

Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu Gly 245 250 255

Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln Leu 260 265 270

Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln Val 275 280 285

Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu Pro 290 295 300

Pro Gln 305

## (2) INFORMATION FOR SEQ ID NO:212:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 306 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:212:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg 1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe

Val	Arg 50	Ala	Val	Lys	Asn	Leu 55	Glu	Asn	Ala	Ser	Gly 60	Ile	Glu	Ala	Ile
Leu 65	Arg	Asn	Leu	Gln	Pro 70	Cys	Leu	Pro	Ser	Ala 75	Thr	Ala	Ala	Pro	Ser 80
Arg	His	Pro	Ile	Ile 85	Ile	Lys	Ala	Gly	Asp 90	Trp	Gln	Glu	Phe	Arg 95	Glu
Lys	Leu	Thr	Phe 100	Tyr	Leu	Val	Thr	Leu 105	Glu	Gln	Ala	Gln	Glu 110	Gln	Gln
Tyr	Val	Glu 115	Gly	Gly	Gly	Gly	Ser 120	Pro	Gly	Glu	Pro	Ser 125	Gly	Pro	Ile
Ser	Thr 130	Ile	Asn	Pro	Ser	Pro 135	Pro	Ser	Lys	Glu	Ser 140	His	Lys	Ser	Pro
Asn 145	Met	Ala	His	Lys	Asp 150	Pro	Asn	Ala	Ile	Phe 155	Leu	Ser	Phe	Gln	His 160
Leu	Leu	Arg	Gly	Lys 165	Val	Arg	Phe	Leu	Met 170	Leu	Val	Gly	Gly	Ser 175	Thr
Leu	Суѕ	Val	Arg 180	Glu	Phe	Gly	Gly	Asn 185	Met	Ala	Ser	Pro	Ala 190	Pro	Pro
Ala	Cys	Asp 195	Leu	Arg	Val	Leu	Ser 200	Lys	Leu	Leu	Arg	Asp 205	Ser	His	Val
Leu	His 210	Ser	Arg	Leu	Ser	Gln 215	Cys	Pro	Glu	Val	His 220	Pro	Leu	Pro	Thr
Pro 225	Val	Leu	Leu	Pro	Ala 230	Val	Asp	Phe	Ser	Leu 235	Gly	Glu	Trp	Lys	Thr 240
Gln	Met	Glu	Glu	Thr 245	Lys	Ala	Gln	Asp	Ile 250	Leu	Gly	Ala	Val	Thr 255	Let
Leu	Leu	Glu	Gly 260	Val	Met	Ala	Ala	Arg 265	Gly	Gln	Leu	Gly	Pro 270	Thr	Cys
Leu	Ser	Ser 275	Leu	Leu	Gly	Gln	Leu 280	Ser	Gly	Gln	Val	Arg 285	Leu	Leu	Leu
Gly	Ala 290	Leu	Gln	Ser	Leu	Leu 295	Gly	Thr	Gln	Leu	Pro 300	Pro	Gln	Gly	Arç
Thr	Thr														

# (2) INFORMATION FOR SEQ ID NO:213:

305

# (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 306 amino acids

- (B) TYPE: amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:213:
- Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg
  1 5 10 15
- Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30
- Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45
- Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60
- Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80
- Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95
- Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110
- Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125
- Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro ·130 135 140
- Asn Met Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg 145 150 155 160
- Gly Lys Val Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val 165 170 175
- Arg Glu Phe Gly Gly Asn Met Ala Ser Pro Ala Pro Pro Ala Cys Asp 180 185 190
- Leu Arg Val Leu Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser 195 200 205
- Arg Leu Ser Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val Leu 210 215 220
- Leu Pro Ala Val Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln Met Glu 225 230 235 240
- Glu Thr Lys Ala Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Glu

245 250 255

Gly Val Met Ala Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser 260 265 270

Leu Leu Gly Gln Leu Ser Gly Gln Val Arg Leu Leu Gly Ala Leu 275 280 285

Gln Ser Leu Leu Gly Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala 290 295 300

His Lys 305

### (2) INFORMATION FOR SEQ ID NO:214:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 306 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:214:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg 1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu
85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

Asn Met Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val

Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe 165 170 175

Gly Gly Asn Met Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val 180 185 190

Leu Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser 195 200 205

Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala 210 215 220

Val Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys 225 230 235 240

Ala Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Glu Gly Val Met 245 250 255

Ala Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly 260 265 270

Gln Leu Ser Gly Gln Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu 275 280 285

Leu Gly Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp 290 295 300

Pro Asn 305

## (2) INFORMATION FOR SEQ ID NO:215:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:215:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg 1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile

Leu 65	Arg	Asn	Leu	Gln	Pro 70	Cys	Leu	Pro	Ser	Ala 75	Thr	Ala	Ala	Pro	Ser 80
Arg	His	Pro	Ile	Ile 85	Ile	Lys	Ala	Gly	Asp 90	Trp	Gln	Glu	Phe	Arg 95	Glu
Lys	Leu	Thr	Phe 100	Tyr	Leu	Val	Thr	Leu 105	Glu	Gln	Ala	Gln	Glu 110	Gln	Gln
Tyr	Val	Glu 115	Gly	Gly	Gly	Gly	Ser 120	Pro	Gly	Glu	Pro	Ser 125	Gly	Pro	Ile
Ser	Thr 130	Ile	Asn	Pro	Ser	Pro 135	Pro	Ser	Lys	Glu	Ser 140	His	Lys	Ser	Pro
Asn 145	Met	Glu	Val	His	Prc 150	Leu	Pro	Thr	Pro	Val 155	Leu	Leu	Pro	Ala	Val
Asp	Phe	Ser	Leu	Gly 165	Glu	Trp	Lys	Thr	Gln 170	Met	Glu	Glu	Thr	Lys 175	Ala
Gln	Asp	Ile	Leu 180	Gly	Ala	Val	Thr	Leu 185	Leu	Leu	Glu	Gly	Val 190	Met	Ala
Ala	Arg	Gly 195	Gln	Leu	Gly	Pro	Thr 200	Cys	Leu	Ser	Ser	Leu 205	Leu	Gly	Gln
Leu	Ser 210	Gly	Gln	Val	Arg	Leu 215	Leu	Leu	Gly	Ala	Leu 220	Gln	Ser	Leu	Leu
Gly 225	Thr	Gln	Leu	Pro	Pro 230	Gln	Gly	Arg	Thr	Thr 235	Ala	His	Lys	Asp	Pro 240
Asn	Ala	Ile	Phe	Leu 245	Ser	Phe	Gln	His	Leu 250	Leu	Arg	Gly	Lys	Val 255	Arg
Phe	Leu	Met	Leu 260	Val	Gly	Gly	Ser	Thr 265	Leu	Cys	Val	Arg	Glu 270	Phe	Gly
Asn	Met	Ala 275	Ser	Pro	Ala	Pro	Pro 280	Ala	Cys	Asp	Leu	Arg 285	Val	Leu	Ser
Lys	Leu 290	Leu	Arg	Asp	Ser	His 295	Val	Leu	His	Ser	Arg 300	Leu	Ser	Gln	Cys
Pro 305															

# (2) INFORMATION FOR SEQ ID NO:216:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown

# (D) TOPOLOGY: unknown

# (ii) MOLECULE TYPE: peptide

(xi)	) SEQUENCE DESCRIPTION: SEQ ID NO:216:														
Ala 1	Asn	Cys	Ser	Ile 5	Met	Ile	Asp	Glu	Ile 10	Ile	His	His	Leu	Lys 15	Arg
Pro	Pro	Ala	Pro 20	Leu	Leu	Asp	Pro	Asn 25	Asn	Leu	Asn	Asp	Glu 30	Asp	Val
Ser	Ile	Leu 35	Met	Asp	Arg	Asn	Leu 40	Arg	Leu	Pro	Asn	Leu 45	Glu	Ser	Phe
Val	Arg 50	Ala	Val	Lys	Asn	Leu 55	Glu	Asn	Ala	Ser	Gly 60	Ile	Glu	Ala	Ile
Leu 65	Arg	Asn	Leu	Gln	Pro 70	Cys	Leu	Pro	Ser	Ala 75	Thr	Ala	Ala	Pro	Ser 80
Arg	His	Pro	Ile	Ile 85	Ile	Lys	Ala	Gly	Asp 90	Trp	Gln	Glu	Phe	Arg 95	Glu
Lys	Leu	Thr	Phe 100	Tyr	Leu	Val	Thr	Leu 105	Glu	Gln	Ala	Gln	Glu 110	Gln	Gln
Tyr	Val	Glu 115	Gly	Gly	Gly	Gly	Ser 120	Pro	Gly	Glu	Pro	Ser 125	Gly	Pro	Ile
Ser	Thr 130	Ile	Asn	Pro	Ser	Pro 135	Pro	Ser	Lys	Glu	Ser 140	His	Lys	Ser	Pro
Asn 145	Met	Leu	Pro	Thr	Pro 150	Val	Leu	Leu	Pro	Ala 155	Val	Asp	Phe	Ser	Leu 160
Gly	Glu	Trp	Lys	Thr 165	Gln	Met	Glu	Glu	Thr 170	Lys	Ala	Gln	Asp	Ile 175	Leu
Gly	Ala	Val	Thr 180	Leu	Leu	Leu	Glu	Gly 185	Val	Met	Ala	Ala	Arg 190	Gly	Gln
Leu	Gly	Pro 195	Thr	Cys	Leu	Ser	Ser 200	Leu	Leu	Gly	Gln	Leu 205	Ser	Gly	Gln
Val	Arg 210	Leu	Leu	Leu	Gly	Ala 215	Leu	Gln	Ser	Leu	Leu 220	Gly	Thr	Gln	Leu
Pro 225	Pro	Gln	Gly	Arg	Thr 230	Thr	Ala	His	Lys	Asp 235	Pro	Asn	Ala	Ile	Phe 240
Leu	Ser	Phe	Gln	His 245	Leu	Leu	Arg	Gly	Lys 250	Val	Arg	Phe	Leu	Met 255	Leu

Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Asn Met Ala Ser 260 265 270

Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu Arg 275 280 285

Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val His 290 295 300

Pro 305

#### (2) INFORMATION FOR SEQ ID NO:217:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:217:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg
1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

Asn Met Val Leu Leu Pro Ala Val Asp Phe Ser Leu Gly Glu Trp Lys 145 150 155 160

Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu Gly Ala Val Thr 165 170 175

Leu Leu Glu Gly Val Met Ala Arg Gly Gln Leu Gly Pro Thr
180 185 190

Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln Val Arg Leu Leu 195 200 205

Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu Pro Pro Gln Gly 210 215 220

Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln 225 230 235 240

His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu Val Gly Gly Ser 245 250 255

Thr Leu Cys Val Arg Glu Phe Gly Asn Met Ala Ser Pro Ala Pro Pro 260 265 270

Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu Arg Asp Ser His Val 275 280 285

Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val His Pro Leu Pro Thr 290 295 300

Pro 305

### (2) INFORMATION FOR SEQ ID NO:218:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:218:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg 1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 105 Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn Met Ala Val Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln Met Glu 155 Glu Thr Lys Ala Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Glu 165 170 Gly Val Met Ala Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser 185 Leu Leu Gly Gln Leu Ser Gly Gln Val Arg Leu Leu Gly Ala Leu 195 200 205 Gln Ser Leu Gly Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg 230 235 Gly Lys Val Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val 245 Arg Glu Phe Gly Asn Met Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu 260 265 Arg Val Leu Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser Arg 275 280 285 Leu Ser Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val Leu Leu 295 300 Pro 305

### (2) INFORMATION FOR SEQ ID NO:219:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:219:

- Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg 1 5 10 15
- Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30
- Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45
- Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60
- Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80
- Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95
- Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110
- Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125
- Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140
- Asn Met Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln Met Glu Glu Thr 145 150 155 160
- Lys Ala Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Glu Gly Val 165 170 175
- Met Ala Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu 180 185 190
- Gly Gln Leu Ser Gly Gln Val Arg Leu Leu Leu Gly Ala Leu Gln Ser 195 200 205
- Leu Leu Gly Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys 210 215 220
- Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys 225 230 235 240
- Val Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu 245 250 255
- Phe Gly Asn Met Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val 260 265 270

Leu Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser 275 280 285

Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala 290 295 300

Val 305

#### (2) INFORMATION FOR SEQ ID NO:220:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:220:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg
1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

Asn Met Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp 145 150 155 160

Ile Leu Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg
165 170 175

Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser 180 185 190

Gly Gln Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr 195 200 205

Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala 210 215 220

Ile Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu 225 230 235 240

Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Asn Met 245 250 255

Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu 260 265 270

Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu 275 280 285

Val His Pro Leu Pro Thr Pro Val Leu Pro Ala Val Asp Phe Ser 290 295 300

Leu 305

#### (2) INFORMATION FOR SEQ ID NO:221:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:221:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg 1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

Asn Met Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly 145 150 155 160

Gln Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln 165 170 175

Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile 180 185 190

Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met 195 200 205

Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Asn Met Ala 210 215 220

Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu 225 230 235 240

Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val 245 250 255

His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu 260 265 270

Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu 275 280 285

Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln 290 295 300

Leu 305

## (2) INFORMATION FOR SEQ ID NO:222:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:222:

- Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg
  1 5 10 15
- Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30
- Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45
- Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60
- Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80
- Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95
- Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110
- Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125
- Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140
- Asn Met Gly Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys 145 150 155 160
- Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys 165 170 175
- Val Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu 180 185 190
- Phe Gly Asn Met Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val 195 200 205
- Leu Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser 210 215 220
- Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala 225 230 235 240
- Val Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys 245 250 255
- Ala Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Glu Gly Val Met 260 265 270
- Ala Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly

275 280 285

Gln Leu Ser Gly Gln Val Arg Leu Leu Gly Ala Leu Gln Ser Leu 290 295 300

Leu 305

### (2) INFORMATION FOR SEQ ID NO:223:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:223:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg 1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu
85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Gln Gln I00 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

Asn Met Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe Leu 145 150 155 160

Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu Val 165 170 175

Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Asn Met Ala Ser Pro

180 185 190

Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu Arg Asp 195 200 205

Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val His Pro 210 215 220

Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu Gly Glu 225 230 235 240

Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu Gly Ala 245 250 255

Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln Leu Gly 260 265 270

Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln Val Arg 275 280 285

Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu Pro Pro 290 295 300

Gln 305

### (2) INFORMATION FOR SEQ ID NO:224:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:224:

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu

90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 120 Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn Met Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe Leu 145 150 155 Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Asn Met Ala Ser Pro 185 Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val His Pro 215 Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu Gly Glu 225 230 235 Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln Leu Gly 265 Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln Val Arg 275 Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu Pro Pro 295

# (2) INFORMATION FOR SEQ ID NO:225:

Gln 305

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:225:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg 1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val
20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu
85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

Asn Met Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg 145 150 155 160

Gly Lys Val Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val 165 170 175

Arg Glu Phe Gly Asn Met Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu 180 185 190

Arg Val Leu Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser Arg 195 200 205

Leu Ser Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val Leu Leu 210 220

Pro Ala Val Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln Met Glu Glu 225 230 235 240

Thr Lys Ala Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Glu Gly 245 250 255

Val Met Ala Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser Leu 260 265 270

Leu Gly Gln Leu Ser Gly Gln Val Arg Leu Leu Gly Ala Leu Gln 275 280 285

Ser Leu Leu Gly Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala His

290 295 300

Lys 305

### (2) INFORMATION FOR SEQ ID NO:226:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 305 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:226:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg

1 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu
85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105  $\cdot$  110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

Asn Met Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val 145 150 155 160

Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe 165 170 175

Gly Asn Met Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu

180 185 190

Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln
195 200 205

Cys Pro Glu Val His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val 210 215 220

Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala 225 230 235 240

Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala 245 250 255

Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln 260 265 270

Leu Ser Gly Gln Val Arg Leu Leu Leu Gly Ala Leu Gln Ser Leu Leu 275 280 285

Gly Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro 290 295 300

Asn 305

#### (2) INFORMATION FOR SEQ ID NO:227:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 309 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:227:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg 1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95 Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

Asn Met Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu 145 150 155 160

Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu 165 170 175

Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln  $180 \,$   $185 \,$   $190 \,$ 

Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
195 200 205

Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu 210 215 220

Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe 225 230 235 240

Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu 245 250 255

Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Gly Asn Gly Gly 260 265 270

Asn Met Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser 275 280 285

Lys Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys 290 295 300

Pro Glu Val His Pro 305

### (2) INFORMATION FOR SEQ ID NO:228:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 309 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:228:

Ala 1	Asn	Cys	Ser	Ile 5	Met	Ile	Asp	Glu	Ile 10	Ile	His	His	Leu	Lys 15	Arg
Pro	Pro	Ala	Pro 20	Leu	Leu	Asp	Pro	Asn 25	Asn	Leu	Asn	Asp	Glu 30	Asp	Val
Ser	Ile	Leu 35	Met	Asp	Arg	Asn	Leu 40	Arg	Leu	Pro	Asn	Leu 45	Glu	Ser	Phe
Val	Arg 50	Ala	Val	Lys	Asn	Leu 55	Glu	Asn	Ala	Ser	Gly 60	Ile	Glu	Ala	Ile
Leu 65	Arg	Asn	Leu	Gln	Pro 70	Cys	Leu	Pro	Ser	Ala 75	Thr	Ala	Ala	Pro	Ser 80
Arg	His	Pro	Ile	Ile 85	Ile	Lys	Ala	Gly	Asp 90	Trp	Gln	Glu	Phe	Arg 95	Glu
Lys	Leu	Thr	Phe 100	Tyr	Leu	Val	Thr	Leu 105	Glu	Gln	Ala	Gln	Glu 110	Gln	Gln
Tyr	Val	Glu 115	Gly	Gly	Gly	Gly	Ser 120	Pro	Gly	Glu	Pro	Ser 125	Gly	Pro	Ile
Ser	Thr 130	Ile	Asn	Pro	Ser	Pro 135	Pro	Ser	Lys	Glu	Ser 140	His	Lys	Ser	Pro
Asn 145	Met	Leu	Pro	Thr	Pro 150	Val	Leu	Leu	Pro	Ala 155	Val	Asp	Phe	Ser	Leu 160
Gly	Glu	Trp	Lys	Thr 165	Gln	Met	Glu	Glu	Thr 170	Lys	Ala	Gln	Asp	Ile 175	Leu
Gly	Ala	Val	Thr 180	Leu	Leu	Leu	Glu	Gly 185	Val	Met	Ala	Ala	Arg 190	Gly	Gln
Leu	Gly	Pro 195	Thr	Cys	Leu	Ser	Ser 200	Leu	Leu	Gly	Gln	Leu 205	Ser	Gly	Gln
Val	Arg 210	Leu	Leu	Leu	Gly	Ala 215	Leu	Gln	Ser	Leu	Leu 220	Gly	Thr	Gln	Leu
Pro 225	Pro	Gln	Gly	Arg	Thr 230	Thr	Ala	His	Lys	Asp 235	Pro	Asn	Ala	Ile	Phe 240
Leu	Ser	Phe	Gln	His 245	Leu	Leu	Arg	Gly	Lys 250	Val	Arg	Phe	Leu	Met 255	Leu
Val	Gly	Gly	Ser 260	Thr	Leu	Cys	Val	Arg 265	Glu	Phe	Gly	Gly	Asn 270	Gly	Gly
Asn	Met	Ala 275	Ser	Pro	Ala	Pro	Pro 280	Ala	Cys	Asp	Leu	Arg 285	Val	Leu	Ser
Lys	Leu 290	Leu	Arg	Asp	Ser	His 295	Val	Leu	His	Ser	Arg 300	Leu	Ser	Gln	Cys

Pro Glu Val His Pro 305

#### (2) INFORMATION FOR SEQ ID NO:229:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 309 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:229:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg

1 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

Asn Met Val Leu Leu Pro Ala Val Asp Phe Ser Leu Gly Glu Trp Lys 145 150 155 160

Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu Gly Ala Val Thr 165 170 175

Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln Leu Gly Pro Thr  $180 \,$   $185 \,$   $190 \,$ 

Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln Val Arg Leu Leu 195 200 205 Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu Pro Pro Gln Gly 210 215 220

Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln 225 230 235 240

His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu Val Gly Gly Ser 245 250 255

Thr Leu Cys Val Arg Glu Phe Gly Gly Asn Gly Gly Asn Met Ala Ser 260 265 270

Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu Arg 275 280 285

Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val His 290 295 300

Pro Leu Pro Thr Pro 305

### (2) INFORMATION FOR SEQ ID NO:230:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 309 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:230:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg
1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

Asn Met Ala Val Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln Met Glu 145 150 155 160

Glu Thr Lys Ala Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Glu 165 170 175

Gly Val Met Ala Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser 180 185 190

Leu Leu Gly Gln Leu Ser Gly Gln Val Arg Leu Leu Leu Gly Ala Leu 195 200 205

Gln Ser Leu Leu Gly Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala 210 215 220

His Lys Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg 225 230 235 240

Gly Lys Val Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val 245 250 255

Arg Glu Phe Gly Gly Asn Gly Gly Asn Met Ala Ser Pro Ala Pro Pro 260 265 270

Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu Arg Asp Ser His Val 275 280 285

Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val His Pro Leu Pro Thr 290 295 300

Pro Val Leu Leu Pro 305

#### (2) INFORMATION FOR SEQ ID NO:231:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 309 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:231:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg 1 5 10 15 Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

Asn Met Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln Met Glu Glu Thr 145 150 155 160

Lys Ala Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Glu Gly Val 165 170 175

Met Ala Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu 180 185 190

Gly Gln Leu Ser Gly Gln Val Arg Leu Leu Leu Gly Ala Leu Gln Ser 195 200 205

Leu Leu Gly Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys 210 215 220

Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys 225 230 235 240

Val Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu 245 250 255

Phe Gly Gly Asn Gly Gly Asn Met Ala Ser Pro Ala Pro Pro Ala Cys 260 265 270

Asp Leu Arg Val Leu Ser Lys Leu Leu Arg Asp Ser His Val Leu His  $275 \\ 280 \\ 285$ 

Ser Arg Leu Ser Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val 290 295 300

Leu Leu Pro Ala Val 305

#### (2) INFORMATION FOR SEQ ID NO:232:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 309 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:232:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg

1 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

Asn Met Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp 145 150 155 160

Ile Leu Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Arg 165 170 175

Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser 180 185 190

Gly Gln Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr 195 200 205

Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala 210 215 220

Ile Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu 225 230 235 240

Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Gly Asn 245 250 255

Gly Gly Asn Met Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val 260 265 270

Leu Ser Lys Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser 275 280 285

Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala 290 295 300

Val Asp Phe Ser Leu 305

### (2) INFORMATION FOR SEQ ID NO:233:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 309 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:233:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg
1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu
85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

Asn Met Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly
145 150 155 160

Gln Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln 165 170 175

Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile 180 185 190

Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met 195 200 205

Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Gly Asn Gly 210 215 220

Gly Asn Met Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu 225 230 235 240

Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln 245 250 255

Cys Pro Glu Val His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val 260 265 270

Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala 275 280 285

Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala 290 295 300

Ala Arg Gly Gln Leu 305

## (2) INFORMATION FOR SEQ ID NO:234:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 309 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:234:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg
1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 135 Asn Met Gly Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys 150 155 145 Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys 165 170 Val Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu 185 Phe Gly Gly Asn Gly Gly Asn Met Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val 225 230 235 Leu Leu Pro Ala Val Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln Met 250 Glu Glu Thr Lys Ala Gln Asp Ile Leu Gly Ala Val Thr Leu Leu 265 Glu Gly Val Met Ala Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser 275 280 Ser Leu Leu Gly Gln Leu Ser Gly Gln Val Arg Leu Leu Gly Ala 295 300 Leu Gln Ser Leu Leu 305

(2) INFORMATION FOR SEQ ID NO:235:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 309 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:235:
- Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg
  1 5 10 15
- Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30
- Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45
- Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60
- Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80
- Arg His Pro Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95
- Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110
- Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125
- Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140
- Asn Met Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe Leu 145 150 155 160
- Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu Val 165 170 175
- Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Gly Asn Gly Gly Asn 180 185 190
- Met Ala Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys 195 200 205
- Leu Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro 210 215 220
- Glu Val His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe

Ser Leu Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp 245 250 255

Ile Leu Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Arg 260 265 270

Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser 275 280 285

Gly Gln Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr 290 295 300

Gln Leu Pro Pro Gln 305

#### (2) INFORMATION FOR SEQ ID NO: 236:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 309 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:236:

Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg 1 5 10 15

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60

Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80

Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95

Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110

Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125

Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro

130 135 140

Asn Met Ala His Lys Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln His 145 150 155 160

Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu Val Gly Gly Ser Thr 165 170 175

Leu Cys Val Arg Glu Phe Gly Gly Asn Gly Gly Asn Met Ala Ser Pro 180 185 190

Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu Arg Asp 195 200 205

Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val His Pro 210 215 220

Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu Gly Glu 225 230 235 240

Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu Gly Ala 245 250 255

Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln Leu Gly 260 265 270

Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln Val Arg 275 280 285

Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu Pro Pro 290 295 300

Gln Gly Arg Thr Thr 305

## (2) INFORMATION FOR SEQ ID NO:237:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 309 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:237:

Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30

Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe

35 40 45

Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 90 Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 120 Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 135 Asn Met Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg 145 150 155 Gly Lys Val Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe Gly Gly Asn Gly Gly Asn Met Ala Ser Pro Ala Pro Pro 180 185 Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu Arg Asp Ser His Val 200 Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val His Pro Leu Pro Thr 215 220 Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu Gly Glu Trp Lys Thr 225 230 235 Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu Gly Ala Val Thr Leu 245 250 255 Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln Val Arg Leu Leu 280

Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu Pro Pro Gln Gly Arg

295

Thr Thr Ala His Lys 305

### (2) INFORMATION FOR SEQ ID NO:238:

### (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown

#### (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:238:

- Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg

  1 10 15
- Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30
- Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45
- Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60
- Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80
- Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95
- Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110
- Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125
- Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140
- Asn Met Ala Ile Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val 145 150 155 160
- Arg Phe Leu Met Leu Val Gly Gly Ser Thr Leu Cys Val Arg Glu Phe 165 170 175
- Gly Gly Asn Gly Gly Asn Met Ala Ser Pro Ala Pro Pro Ala Cys Asp 180 185 190
- Leu Arg Val Leu Ser Lys Leu Leu Arg Asp Ser His Val Leu His Ser 195 200 205
- Arg Leu Ser Gln Cys Pro Glu Val His Pro Leu Pro Thr Pro Val Leu 210 215 220
- Leu Pro Ala Val Asp Phe Ser Leu Gly Glu Trp Lys Thr Gln Met Glu 225 230 235 240

Glu Thr Lys Ala Gln Asp Ile Leu Gly Ala Val Thr Leu Leu Glu 245 250 255

Gly Val Met Ala Ala Arg Gly Gln Leu Gly Pro Thr Cys Leu Ser Ser 260 265 270

Leu Leu Gly Gln Leu Ser Gly Gln Val Arg Leu Leu Leu Gly Ala Leu 275 280 285

Gln Ser Leu Leu Gly Thr Gln Leu Pro Pro Gln Gly Arg Thr Thr Ala 290 295 300

His Lys Asp Pro Asn 305

#### (2) INFORMATION FOR SEQ ID NO:239:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 302 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:239:
- Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys Arg
  1 5 10 15
- Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp Val 20 25 30
- Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser Phe 35 40 45
- Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile 50 55 60
- Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser 65 70 75 80
- Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu 85 90 95
- Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln 100 105 110
- Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro Ile 115 120 125
- Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro 130 135 140

	Asn 145	Met	Asp	Pro	Asn	Ala 150	Ile	Phe	Leu	Ser	Phe 155	Gln	His	Leu	Leu	Arg 160	
	Gly	Lys	Val	Arg	Phe 165	Leu	Met	Leu	Val	Gly 170	Gly	Ser	Thr	Leu	Cys 175	Val	
	Arg	Glu	Phe	Gly 180	Gly	Asn	Met	Ala	Ser 185	Pro	Ala	Pro	Pro	Ala 190	Cys	Asp	
	Leu	Arg	Val 195	Leu	Ser	Lys	Leu	Leu 200	Arg	Asp	Ser	His	Val 205	Leu	His	Ser	
	Arg	Leu 210	Ser	Gln	Cys	Pro	Glu 215	Val	His	Pro	Leu	Pro 220	Thr	Pro	Val	Leu	
	Leu 225	Pro	Ala	Val	Asp	Phe 230	Ser	Leu	Gly	Glu	Trp 235	Lys	Thr	Gln	Met	Glu 240	
	Glu	Thr	Lys	Ala	Gln 245	Asp	Ile	Leu	Gly	Ala 250	Val	Thr	Leu	Leu	Leu 255	Glu	
	Gly	Val	Met	Ala 260	Ala	Arg	Gly	Gln	Leu 265	Gly	Pro	Thr	Cys	Leu 270	Ser	Ser	
	Leu	Leu	Gly 275	Gln	Leu	Ser	Gly	Gln 280	Val	Arg	Leu	Leu	Leu 285	Gly	Ala	Leu	
	Gln	Ser 290	Leu	Leu	Gly	Thr	Gln 295	Gly	Arg	Thr	Thr	Ala 300	His	Lys			
(2)	INFO	RMAT	ION I	FOR S	SEQ I	D NO	):240	):									
	(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 83 base pairs  (B) TYPE: nucleic acid  (C) STRANDEDNESS: single  (D) TOPOLOGY: linear																
	(ii)				PE: o						c"						
	(xi)	SEQU	JENCI	E DES	SCRIE	OITS	V: SE	EQ II	ONO:	240:	:		•				
AATT	CCGT	CG TA	AAAC:	rgac(	C TTC	CTATO	CTGA	AAA	CCTTC	GA C	SAACO	GCGC <i>I</i>	AG GO	CTCA	ACAGI	7	60
ACGI	AGAGO	GG CC	GTG	GAGG	C TCC												83
(2)	INFO	RMATI	ON I	FOR S	SEQ ]	D NC	0:241	l:									
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 83 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: single</li><li>(D) TOPOLOGY: linear</li></ul>																	

	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "synthetic"</pre>								
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:241:								
CCG	GGGAGCC TCCACCGCCC TCTACGTACT GTTGAGCCTG CGCGTTCTCC AAGGTTTTCA	60							
GAT	AGAAGGT CAGTTTACGA CGG	83							
(2)	INFORMATION FOR SEQ ID NO:242:								
	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 8 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: unknown</li> <li>(D) TOPOLOGY: unknown</li> </ul>								
	(ii) MOLECULE TYPE: peptide								
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:242:								
	Gly Gly Gly Gly Gly Ser 1 5								
(2)	INFORMATION FOR SEQ ID NO:243:								
	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 12 amino acids</li><li>(B) TYPE: amino acid</li><li>(C) STRANDEDNESS: unknown</li><li>(D) TOPOLOGY: unknown</li></ul>								
	(ii) MOLECULE TYPE: peptide								
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:243:								
	Gly Gly Gly Ser Gly Gly Ser Gly Gly Ser 1 5 10								
(2)	INFORMATION FOR SEQ ID NO:244:								
	<ul> <li>(i) SEQUENCE CHARACTERISTICS:</li> <li>(A) LENGTH: 7 amino acids</li> <li>(B) TYPE: amino acid</li> <li>(C) STRANDEDNESS: unknown</li> <li>(D) TOPOLOGY: unknown</li> </ul>								

- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:244:

Ser Gly Gly Ser Gly Gly Ser 1 5

- (2) INFORMATION FOR SEQ ID NO:245:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 6 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: unknown
    - (D) TOPOLOGY: unknown
  - (ii) MOLECULE TYPE: peptide
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:245:

Glu Phe Gly Asn Met Ala

- (2) INFORMATION FOR SEQ ID NO:246:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 7 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: unknown
    - (D) TOPOLOGY: unknown
  - (ii) MOLECULE TYPE: peptide
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:246:

Glu Phe Gly Gly Asn Met Ala 1 5

- (2) INFORMATION FOR SEQ ID NO:247:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 10 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: unknown
    - (D) TOPOLOGY: unknown
  - (ii) MOLECULE TYPE: peptide

(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:247:								
Glu 1	Phe Gly Gly Asn Gly Gly Asn Met Ala 5 10								
(2) INFO	DRMATION FOR SEQ ID NO:248:								
(i)	SEQUENCE CHARACTERISTICS:  (A) LENGTH: 7 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: unknown								
(ii)	MOLECULE TYPE: peptide								
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:248:								
Gly 1	y Gly Ser Asp Met Ala Gly 5								
(2) INFO	DRMATION FOR SEQ ID NO:249:								
(i)	<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 459 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: unknown</li><li>(D) TOPOLOGY: unknown</li></ul>								
(ii)	MOLECULE TYPE: other nucleic acid (A) DESCRIPTION: /desc = "SYNTHETIC"								
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:249:								
TCTCCCG	CTC CGCCTGCTTG TGACCTCCGA GTCCTCAGTA AACTGCTTCG TGACTCCCAT	60							
GTCCTTC	ACA GCAGACTGAG CCAGTGCCCA GAGGTTCACC CTTTGCCTAC ACCTGTCCTG	120							
CTGCCTGC	CTG TGGACTTTAG CTTGGGAGAA TGGAAAACCC AGATGGAGGA GACCAAGGCA	180							
CAGGACAT	TTC TGGGAGCAGT GACCCTTCTG CTGGAGGGAG TGATGGCAGC ACGGGGACAA	240							
CTGGGAC	CCA CTTGCCTCTC ATCCCTCCTG GGGCAGCTTT CTGGACAGGT CCGTCTCCTC	300							
CTTGGGG	CCC TGCAGAGCCT CCTTGGAACC CAGCTTCCTC CACAGGGCAG GACCACAGCT	360							
CACAAGGA	ATC CCAATGCCAT CTTCCTGAGC TTCCAACACC TGCTCCGAGG AAAGGTGCGT	420							
TTCCTGAT	TGC TTGTAGGAGG GTCCACCCTC TGCGTCAGG	459							

(2)	INFORMATION	FOR	SEQ	ΙD	NO:250:

<ul> <li>(i) SEQUENCE CHARACTERISTICS: <ul> <li>(A) LENGTH: 447 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: unknown</li> <li>(D) TOPOLOGY: unknown</li> </ul> </li> <li>(ii) MOLECULE TYPE: other nucleic acid</li> <li>(A) DESCRIPTION: /desc = "SYNTHETIC"</li> </ul>								
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:250:								
TCTCCCGCTC CGCCTGCTTG TGACCTCCGA GTCCTCAGTA AACTGCTTCG TGACTCCCAT	60							
GTCCTTCACA GCAGACTGAG CCAGTGCCCA GAGGTTCACC CTTTGCCTAC ACCTGTCCTG	120							
CTGCCTGCTG TGGACTTTAG CTTGGGAGAA TGGAAAACCC AGATGGAGGA GACCAAGGCA	180							
CAGGACATTC TGGGAGCAGT GACCCTTCTG CTGGAGGGAG TGATGGCAGC ACGGGGACAA	240							
CTGGGACCCA CTTGCCTCTC ATCCCTCCTG GGGCAGCTTT CTGGACAGGT CCGTCTCCTC	300							
CTTGGGGCCC TGCAGAGCCT CCTTGGAACC CAGGGCAGGA CCACAGCTCA CAAGGATCCC	360							
AATGCCATCT TCCTGAGCTT CCAACACCTG CTCCGAGGAA AGGTGCGTTT CCTGATGCTT	420							
GTAGGAGGGT CCACCCTCTG CGTCAGG	447							
(2) INFORMATION FOR SEQ ID NO:251:								
<pre>(i) SEQUENCE CHARACTERISTICS:     (A) LENGTH: 459 base pairs     (B) TYPE: nucleic acid     (C) STRANDEDNESS: unknown     (D) TOPOLOGY: unknown  (ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "SYNTHETIC"</pre>								
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:251:								
TCCCCAGCGC CGCCTGCTTG TGACCTCCGA GTCCTCAGTA AACTGCTTCG TGACTCCCAT	60							
GTCCTTCACA GCAGACTGAG CCAGTGCCCA GAGGTTCACC CTTTGCCTAC ACCTGTCCTG	120							
CTGCCTGCTG TGGACTTTAG CTTGGGAGAA TGGAAAACCC AGATGGAGGA GACCAAGGCA	180							
CAGGACATTC TGGGAGCAGT GACCCTTCTG CTGGAGGGAG TGATGGCAGC ACGGGGACAA	240							

CTGGGACCCA CTTGCCTCTC ATCCCTCCTG GGGCAGCTTT CTGGACAGGT CCGTCTCCTC	300							
CTTGGGGCCC TGCAGAGCCT CCTTGGAACC CAGCTTCCTC CACAGGGCAG GACCACAGCT	360							
CACAAGGATC CCAATGCCAT CTTCCTGAGC TTCCAACACC TGCTCCGAGG AAAGGTGCGT	420							
TTCCTGATGC TTGTAGGAGG GTCCACCCTC TGCGTCAGG	459							
(2) INFORMATION FOR SEQ ID NO:252:								
(i) SEQUENCE CHARACTERISTICS:  (A) LENGTH: 153 amino acids  (B) TYPE: amino acid								

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:252:

(C) STRANDEDNESS: unknown(D) TOPOLOGY: unknown

Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu 1 5 10 15

Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val 20 25 30

His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu 35 40 45

Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu 50 60

Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln 65 70 75 80

Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln 85 90 95

Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu
100 105 110

Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe 115 120 125

Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu 130 135 140

Val Gly Gly Ser Thr Leu Cys Val Arg 145 150

#### (2) INFORMATION FOR SEQ ID NO:253:

#### (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 149 amino acids

- (B) TYPE: amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:253:

Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu 1 5 10 15

Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val 20 25 30

His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu 35 40 45

Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu 50 55 60

Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln 65 70 75 80

Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln 85 90 95

Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Gly
100 105 110

Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe Leu Ser Phe Gln
115 120 125

His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu Val Gly Gly Ser 130 135 140

Thr Leu Cys Val Arg

- (2) INFORMATION FOR SEQ ID NO:254:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 153 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: unknown
    - (D) TOPOLOGY: unknown
  - (ii) MOLECULE TYPE: peptide
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:254:

Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu

	1				5				10					15		
	Arg	Asp	Ser	His 20	Val	Leu	His	Ser	Arg 25	Leu	Ser	Gln	Cys	Pro 30	Glu	Val
	His	Pro	Leu 35	Pro	Thr	Pro	Val	Leu 40	Leu	Pro	Ala	Val	Asp 45	Phe	Ser	Leu
	Gly	Glu 50	Trp	Lys	Thr	Gln	Met 55	Glu	Glu	Thr	Lys	Ala 60	Gln	Asp	Ile	Leu
	Gly 65	Ala	Val	Thr	Leu	Leu 70	Leu	Glu	Gly	Val	Met 75	Ala	Ala	Arg	Gly	Gln 80
	Leu	Gly	Pro	Thr	Cys 85	Leu	Ser	Ser	Leu	Leu 90	Gly	Gln	Leu	Ser	Gly 95	Gln
	Val	Arg	Leu	Leu 100	Leu	Gly	Ala	Leu	Gln 105	Ser	Leu	Leu	Gly	Thr 110	Gln	Leu
	Pro	Pro	Gln 115	Gly	Arg	Thr	Thr	Ala 120	His	Lys	Asp	Pro	Asn 125	Ala	Ile	Phe
	Leu	Ser 130	Phe	Gln	His	Leu	Leu 135	Arg	Gly	Lys	Val	Arg 140	Phe	Leu	Met	Leu
	Val 145	Gly	Gly	Ser	Thr	Leu 150	Cys	Val	Arg							
(2)	INFO	RMATI	ON I	FOR S	SEQ 1	D NC	):255	5: ,								
	(i)	(A) (B) (C)	LEN TYP STE	NGTH: PE: r RANDE	64 nucle EDNES	ERIS base eic a SS: u	e pai acid ankno	rs								
	<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "SYNTHETIC"</pre>															
	(xi)	SEQU	JENCE	E DES	CRIE	MOIT	N: SE	EQ II	NO:	255:						
GGAI	'CCAC(	CA TO	SAGCO	CGCCI	GCC	CCGTC	CCTG	CTCC	CTGCT	CC P	ACTO	CTG	ST CC	CGCCC	CCGC	C
ATGG	;															
(2)	(2) INFORMATION FOR SEQ ID NO:256:															

(i) SEQUENCE CHARACTERISTICS:

(B) TYPE: amino acid (C) STRANDEDNESS: unknown (D) TOPOLOGY: unknown

(A) LENGTH: 153 amino acids

60

64

#### (ii) MOLECULE TYPE: protein

#### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 112
- (D) OTHER INFORMATION: /note= "position 112 is deleted or Leu, Ala, VAl, Ile, Pro, Phe, Trp or Met"

#### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 113
- (D) OTHER INFORMATION: /note= "positoin 113 is deleted or Pro, Phe, Ala, Val, Leu, Ile, Trp or Met"

#### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 114
- (D) OTHER INFORMATION: /note= "position 114 is deleted or Pro, Phe, Ala, Val, Leu, Ile, Trp or Met"

#### (ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 115
- (D) OTHER INFORMATION: /note= "positon 115 is deleted or Gln, Gly, Ser, Thr, Tyr, or Asn"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:256:

- Ser Pro Ala Pro Pro Ala Cys Asp Leu Arg Val Leu Ser Lys Leu Leu 1 5 10 15
- Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val 20 25 30
- His Pro Leu Pro Thr Pro Val Leu Pro Ala Val Asp Phe Ser Leu 35 40 45
- Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu 50 55 60
- Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln 65 70 75 80
- Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln
  85 90 95
- Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Xaa 100 105 110
- Xaa Xaa Xaa Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe 115 120 125
- Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu 130 135 140

Val Gly Gly Ser Thr Leu Cys Val Arg 145 150								
(2) INFORMATION FOR SEQ ID NO:257:								
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 464 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: unknown</li><li>(D) TOPOLOGY: unknown</li></ul>								
<pre>(ii) MOLECULE TYPE: other nucleic acid    (A) DESCRIPTION: /desc = "SYNTHETIC"</pre>								
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:257:								
CCATGGCTAA CTGCTCTATA ATGATCGATG AAATTATACA TCACTTAAAG AGACCACCTG	60							
CACCTTTGCT GGACCCGAAC AACCTCAATG ACGAAGACGT CTCTATCCTG ATGGATCGAA	120							
ACCTTCGACT TCCAAACCTG GAGAGCTTCG TAAGGGCTGT CAAGAACTTA GAAAATGCAT	180							
CAGGTATTGA GGCAATTCTT CGTAATCTCC AACCATGTCT GCCCTCTGCC ACGGCCGCAC	240							
CCTCTCGACA TCCAATCATC ATCAAGGCAG GTGACTGGCA AGAATTCCGG GAAAAACTGA	300							
CGTTCTATCT GGTTACCCTT GAGCAAGCGC AGGAACAACA GTACGTAGAG GGCGGTGGAG	360							
GCTCCCCGGG TGAACCGTCT GGTCCAATCT CTACTATCAA CCCGTCTCCT CCGTCTAAAG	420							
AATCTCATAA ATCTCCAAAC ATGTAAGGTA CCGCATGCAA GCTT	464							
(2) INFORMATION FOR SEQ ID NO:258:								
<ul> <li>(i) SEQUENCE CHARACTERISTICS: <ul> <li>(A) LENGTH: 100 base pairs</li> <li>(B) TYPE: nucleic acid</li> <li>(C) STRANDEDNESS: unknown</li> <li>(D) TOPOLOGY: unknown</li> </ul> </li> <li>(ii) MOLECULE TYPE: other nucleic acid</li> </ul>								
(A) DESCRIPTION: /desc = "SYNTHETIC"								

# AAAACAAGAA GAAAGGCGAT AAAAAGGTTG TGGTAAGAGA AATGGATAAA AAGGGGTCGG 60 GGAAGGAAGG TGGGAGTTAA AAAAGAGGAA GTAGGTCAAG 100 (2) INFORMATION FOR SEQ ID NO:259:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:258:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 11808 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:259:

ACGTACTCCA	TGGCTAACTG	CTCTATAATG	ATCGATGAAA	TTATACATCA	CTTAAAGAGA	60
CCACCTGCAC	CTTTGCTGGA	CCCGAACAAC	CTCAATGACG	AAGACGTCTC	TATCCTGATG	120
GATCGAAACC	TTCGACTTCC	AAACCTGGAG	AGCTTCGTAA	GGGCTGTCAA	GAACTTAGAA	180
AATGCATCAG	GTATTGAGGC	AATTCTTCGT	AATCTCCAAC	CATGTCTGCC	CTCTGCCACG	240
GCCGCACCCT	CTCGACATCC	AATCATCATC	AAGGCAGGTG	ACTGGCAAGA	ATTCCGGGAA	300
AAACTGACGT	TCTATCTGGT	TACCCTTGAG	CAAGCGCAGG	AACAACAGTA	CGTAGAGGGC	360
GGTGGAGGCT	CCCCGGGTGA	ACCGTCTGGT	CCAATCTCTA	CTATCAACCC	GTCTCCTCCG	420
TCTAAAGAAT	CTCATAAATC	TCCAAACATG	GCTTTAGGCC	CTGCCAGCTC	CCTGCCCCAG	480
AGCTTCCTGC	TCAAGTCTTT	AGAGCAAGTG	AGGAAGATCC	AGGGCGATGG	CGCAGCGCTC	540
CAGGAGAAGC	TGTGTGCCAC	CTACAAGCTG	TGCCACCCCG	AGGAGCTGGT	GCTGCTCGGA	600
CACTCTCTGG	GCATCCCCTG	GGCTCCCCTG	AGCTCCTGCC	CCAGCCAGGC	CCTGCAGCTG	660
GCAGGCTGCT	TGAGCCAACT	CCATAGCGGC	CTTTTCCTCT	ACCAGGGGCT	CCTGCAGGCC	720
CTGGAAGGGA	TATCCCCGA	GTTGGGTCCC	ACCTTGGACA	CACTGCAGCT	GGACGTCGCC	780
GACTTTGCCA	CCACCATCTG	GCAGCAGATG	GAAGAACTGG	GAATGGCCCC	TGCCCTGCAG	840
CCCACCCAGG	GTGCCATGCC	GGCCTTCGCC	TCTGCTTTCC	AGCGCCGGGC	AGGAGGGGTC	900
CTGGTTGCTA	GCCATCTGCA	GAGCTTCCTG	GAGGTGTCGT	ACCGCGTTCT	ACGCCACCTT	960
GCGCAGCCCG	ACATGGCTAC	ACCAACGTAC	TCCATGGCTA	ACTGCTCTAT	AATGATCGAT	1020
GAAATTATAC	ATCACTTAAA	GAGACCACCT	GCACCTTTGC	TGGACCCGAA	CAACCTCAAT	1080
GACGAAGACG	TCTCTATCCT	GATGGATCGA	AACCTTCGAC	TTCCAAACCT	GGAGAGCTTC	1140
GTAAGGGCTG	TCAAGAACTT	AGAAAATGCA	TCAGGTATTG	AGGCAATTCT	TCGTAATCTC	1200
CAACCATGTC	TGCCCTCTGC	CACGGCCGCA	CCCTCTCGAC	ATCCAATCAT	CATCAAGGCA	1260
GGTGACTGGC	AAGAATTCCG	GGAAAAACTG	ACGTTCTATC	TGGTTACCCT	TGAGCAAGCG	1320

CAGGAACAAC	AGTACGTAGA	GGGCGGTGGA	GGCTCCCCGG	GTGAACCGTC	TGGTCCAATC	1380
TCTACTATCA	ACCCGTCTCC	TCCGTCTAAA	GAATCTCATA	AATCTCCAAA	CATGGCTCAG	1440
AGCTTCCTGC	TCAAGTCTTT	AGAGCAAGTG	AGGAAGATCC	AGGGCGATGG	CGCAGCGCTC	1500
CAGGAGAAGC	TGTGTGCCAC	CTACAAGCTG	TGCCACCCCG	AGGAGCTGGT	GCTGCTCGGA	1560
CACTCTCTGG	GCATCCCCTG	GGCTCCCCTG	AGCTCCTGCC	CCAGCCAGGC	CCTGCAGCTG	1620
GCAGGCTGCT	TGAGCCAACT	CCATAGCGGC	CTTTTCCTCT	ACCAGGGGCT	CCTGCAGGCC	1680
CTGGAAGGGA	TATCCCCGA	GTTGGGTCCC	ACCTTGGACA	CACTGCAGCT	GGACGTCGCC	1740
GACTTTGCCA	CCACCATCTG	GCAGCAGATG	GAAGAACTGG	GAATGGCCCC	TGCCCTGCAG	1800
CCCACCCAGG	GTGCCATGCC	GGCCTTCGCC	TCTGCTTTCC	AGCGCCGGGC	AGGAGGGGTC	1860
CTGGTTGCTA	GCCATCTGCA	GAGCTTCCTG	GAGGTGTCGT	ACCGCGTTCT	ACGCCACCTT	1920
GCGCAGCCCG	ACATGGCTAC	ACCATTAGGC	CCTGCCAGCT	CCCTGCCCAC	GTACTCCATG	1980
GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	2040
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	TCGAAACCTT	2100
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	2160
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	2220
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	2280
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	2340
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	2400
CATAAATCTC	CAAACATGGC	TTTCCTGCTC	AAGTCTTTAG	AGCAAGTGAG	GAAGATCCAG	2460
GGCGATGGCG	CAGCGCTCCA	GGAGAAGCTG	TGTGCCACCT	ACAAGCTGTG	CCACCCGAG	2520
GAGCTGGTGC	TGCTCGGACA	CTCTCTGGGC	ATCCCCTGGG	CTCCCCTGAG	CTCCTGCCCC	2580
AGCCAGGCCC	TGCAGCTGGC	AGGCTGCTTG	AGCCAACTCC	ATAGCGGCCT	TTTCCTCTAC	2640
CAGGGGCTCC	TGCAGGCCCT	GGAAGGGATA	TCCCCGAGT	TGGGTCCCAC	CTTGGACACA	2700
CTGCAGCTGG	ACGTCGCCGA	CTTTGCCACC	ACCATCTGGC	AGCAGATGGA	AGAACTGGGA	2760
ATGGCCCCTG	CCCTGCAGCC	CACCCAGGGT	GCCATGCCGG	CCTTCGCCTC	TGCTTTCCAG	2820
CGCCGGGCAG	GAGGGGTCCT	GGTTGCTAGC	CATCTGCAGA	GCTTCCTGGA	GGTGTCGTAC	2880
CGCGTTCTAC	GCCACCTTGC	GCAGCCCGAC	ATGGCTACAC	CATTAGGCCC	TGCCAGCTCC	2940
CTGCCCCAGA	GCACGTACTC	CATGGCTAAC	TGCTCTATAA	TGATCGATGA	AATTATACAT	3000

CACTTAAAGA	GACCACCTGC	ACCTTTGCTG	GACCCGAACA	ACCTCAATGA	CGAAGACGTC	3060
TCTATCCTGA	TGGATCGAAA	CCTTCGACTT	CCAAACCTGG	AGAGCTTCGT	AAGGGCTGTC	3120
AAGAACTTAG	AAAATGCATC	AGGTATTGAG	GCAATTCTTC	GTAATCTCCA	ACCATGTCTG	3180
CCCTCTGCCA	CGGCCGCACC	CTCTCGACAT	CCAATCATCA	TCAAGGCAGG	TGACTGGCAA	3240
GAATTCCGGG	AAAAACTGAC	GTTCTATCTG	GTTACCCTTG	AGCAAGCGCA	GGAACAACAG	3300
TACGTAGAGG	GCGGTGGAGG	CTCCCCGGGT	GAACCGTCTG	GTCCAATCTC	TACTATCAAC	3360
CCGTCTCCTC	CGTCTAAAGA	ATCTCATAAA	TCTCCAAACA	TGGCTGAGCA	AGTGAGGAAG	3420
ATCCAGGGCG	ATGGCGCAGC	GCTCCAGGAG	AAGCTGTGTG	CCACCTACAA	GCTGTGCCAC	3480
CCCGAGGAGC	TGGTGCTGCT	CGGACACTCT	CTGGGCATCC	CCTGGGCTCC	CCTGAGCTCC	3540
TGCCCCAGCC	AGGCCCTGCA	GCTGGCAGGC	TGCTTGAGCC	AACTCCATAG	CGGCCTTTTC	3600
CTCTACCAGG	GGCTCCTGCA	GGCCCTGGAA	GGGATATCCC	CCGAGTTGGG	TCCCACCTTG	3660
GACACACTGC	AGCTGGACGT	CGCCGACTTT	GCCACCACCA	TCTGGCAGCA	GATGGAAGAA	3720
CTGGGAATGG	CCCCTGCCCT	GCAGCCCACC	CAGGGTGCCA	TGCCGGCCTT	CGCCTCTGCT	3780
TTCCAGCGCC	GGGCAGGAGG	GGTCCTGGTT	GCTAGCCATC	TGCAGAGCTT	CCTGGAGGTG	3840
TCGTACCGCG	TTCTACGCCA	CCTTGCGCAG	CCCGACATGG	CTACACCATT	AGGCCCTGCC	3900
AGCTCCCTGC	CCCAGAGCTT	CCTGCTCAAG	TCTTTAACGT	ACTCCATGGC	TAACTGCTCT	3960
ATAATGATCG	ATGAAATTAT	ACATCACTTA	AAGAGACCAC	CTGCACCTTT	GCTGGACCCG	4020
AACAACCTCA	ATGACGAAGA	CGTCTCTATC	CTGATGGATC	GAAACCTTCG	ACTTCCAAAC	4080
CTGGAGAGCT	TCGTAAGGGC	TGTCAAGAAC	TTAGAAAATG	CATCAGGTAT	TGAGGCAATT	4140
CTTCGTAATC	TCCAACCATG	TCTGCCCTCT	GCCACGGCCG	CACCCTCTCG	ACATCCAATC	4200
ATCATCAAGG	CAGGTGACTG	GCAAGAATTC	CGGGAAAAAC	TGACGTTCTA	TCTGGTTACC	4260
CTTGAGCAAG	CGCAGGAACA	ACAGTACGTA	GAGGGCGGTG	GAGGCTCCCC	GGGTGAACCG	4320
TCTGGTCCAA	TCTCTACTAT	CAACCCGTCT	CCTCCGTCTA	AAGAATCTCA	TAAATCTCCA	4380
AACATGGCTC	TGCTCGGACA	CTCTCTGGGC	ATCCCCTGGG	CTCCCCTGAG	CTCCTGCCCC	4440
AGCCAGGCCC	TGCAGCTGGC	AGGCTGCTTG	AGCCAACTCC	ATAGCGGCCT	TTTCCTCTAC	4500
CAGGGGCTCC	TGCAGGCCCT	GGAAGGGATA	TCCCCGAGT	TGGGTCCCAC	CTTGGACACA	4560
CTGCAGCTGG	ACGTCGCCGA	CTTTGCCACC	ACCATCTGGC	AGCAGATGGA	AGAACTGGGA	4620
ATGGCCCCTG	CCCTGCAGCC	CACCCAGGGT	GCCATGCCGG	CCTTCGCCTC	TGCTTTCCAG	4680
CGCCGGGCAG	GAGGGGTCCT	GGTTGCTAGC	CATCTGCAGA	GCTTCCTGGA	GGTGTCGTAC	4740

CGCGTTCTAC	GCCACCTTGC	GCAGCCCGAC	ATGGCTACAC	CATTAGGCCC	TGCCAGCTCC	4800
CTGCCCCAGA	GCTTCCTGCT	CAAGTCTTTA	GAGCAAGTGA	GGAAGATCCA	GGGCGATGGC	4860
GCAGCGCTCC	AGGAGAAGCT	GTGTGCCACC	TACAAGCTGT	GCCACCCGA	GGAGCTGGTG	4920
ACGTACTCCA	TGGCTAACTG	CTCTATAATG	ATCGATGAAA	TTATACATCA	CTTAAAGAGA	4980
CCACCTGCAC	CTTTGCTGGA	CCCGAACAAC	CTCAATGACG	AAGACGTCTC	TATCCTGATG	5040
GATCGAAACC	TTCGACTTCC	AAACCTGGAG	AGCTTCGTAA	GGGCTGTCAA	GAACTTAGAA	5100
AATGCATCAG	GTATTGAGGC	AATTCTTCGT	AATCTCCAAC	CATGTCTGCC	CTCTGCCACG	5160
GCCGCACCCT	CTCGACATCC	AATCATCATC	AAGGCAGGTG	ACTGGCAAGA	ATTCCGGGAA	5220
AAACTGACGT	TCTATCTGGT	TACCCTTGAG	CAAGCGCAGG	AACAACAGTA	CGTAGAGGGC	5280
GGTGGAGGCT	CCCCGGGTGA	ACCGTCTGGT	CCAATCTCTA	CTATCAACCC	GTCTCCTCCG	5340
TCTAAAGAAT	CTCATAAATC	TCCAAACATG	GCTCCCCTGA	GCTCCTGCCC	CAGCCAGGCC	5400
CTGCAGCTGG	CAGGCTGCTT	GAGCCAACTC	CATAGCGGCC	TTTTCCTCTA	CCAGGGGCTC	5460
CTGCAGGCCC	TGGAAGGGAT	ATCCCCGAG	TTGGGTCCCA	CCTTGGACAC	ACTGCAGCTG	5520
GACGTCGCCG	ACTTTGCCAC	CACCATCTGG	CAGCAGATGG	AAGAACTGGG	AATGGCCCCT	5580
GCCCTGCAGC	CCACCCAGGG	TGCCATGCCG	GCCTTCGCCT	CTGCTTTCCA	GCGCCGGGCA	5640
GGAGGGGTCC	TGGTTGCTAG	CCATCTGCAG	AGCTTCCTGG	AGGTGTCGTA	CCGCGTTCTA	5700
CGCCACCTTG	CGCAGCCCGA	CATGGCTACA	CCATTAGGCC	CTGCCAGCTC	CCTGCCCCAG	5760
AGCTTCCTGC	TCAAGTCTTT	AGAGCAAGTG	AGGAAGATCC	AGGGCGATGG	CGCAGCGCTC	5820
CAGGAGAAGC	TGTGTGCCAC	CTACAAGCTG	TGCCACCCCG	AGGAGCTGGT	GCTGCTCGGA	5880
CACTCTCTGG	GCATCCCCTG	GGCTACGTAC	TCCATGGCTA	ACTGCTCTAT	AATGATCGAT	5940
GAAATTATAC	ATCACTTAAA	GAGACCACCT	GCACCTTTGC	TGGACCCGAA	CAACCTCAAT	6000
GACGAAGACG	TCTCTATCCT	GATGGATCGA	AACCTTCGAC	TTCCAAACCT	GGAGAGCTTC	6060
GTAAGGGCTG	TCAAGAACTT	AGAAAATGCA	TCAGGTATTG	AGGCAATTCT	TCGTAATCTC	6120
CAACCATGTC	TGCCCTCTGC	CACGGCCGCA	CCCTCTCGAC	ATCCAATCAT	CATCAAGGCA	6180
GGTGACTGGC	AAGAATTCCG	GGAAAAACTG	ACGTTCTATC	TGGTTACCCT	TGAGCAAGCG	6240
CAGGAACAAC	AGTACGTAGA	GGGCGGTGGA	GGCTCCCCGG	GTGAACCGTC	TGGTCCAATC	6300
TCTACTATCA	ACCCGTCTCC	TCCGTCTAAA	GAATCTCATA	AATCTCCAAA	CATGGCTCAG	6360
GCCCTGCAGC	TGGCAGGCTG	CTTGAGCCAA	CTCCATAGCG	GCCTTTTCCT	CTACCAGGGG	6420

CTCCTGCAGG	CCCTGGAAGG	GATATCCCCC	GAGTTGGGTC	CCACCTTGGA	CACACTGCAG	6480
CTGGACGTCG	CCGACTTTGC	CACCACCATC	TGGCAGCAGA	TGGAAGAACT	GGGAATGGCC	6540
CCTGCCCTGC	AGCCCACCCA	GGGTGCCATG	CCGGCCTTCG	CCTCTGCTTT	CCAGCGCCGG	6600
GCAGGAGGGG	TCCTGGTTGC	TAGCCATCTG	CAGAGCTTCC	TGGAGGTGTC	GTACCGCGTT	6660
CTACGCCACC	TTGCGCAGCC	CGACATGGCT	ACACCATTAG	GCCCTGCCAG	CTCCCTGCCC	6720
CAGAGCTTCC	TGCTCAAGTC	TTTAGAGCAA	GTGAGGAAGA	TCCAGGGCGA	TGGCGCAGCG	6780
CTCCAGGAGA	AGCTGTGTGC	CACCTACAAG	CTGTGCCACC	CCGAGGAGCT	GGTGCTGCTC	6840
GGACACTCTC	TGGGCATCCC	CTGGGCTCCC	CTGAGCTCCT	GCCCCAGCAC	GTACTCCATG	6900
GCTAACTGCT	CTATAATGAT	CGATGAAATT	ATACATCACT	TAAAGAGACC	ACCTGCACCT	6960
TTGCTGGACC	CGAACAACCT	CAATGACGAA	GACGTCTCTA	TCCTGATGGA	TCGAAACCTT	7020
CGACTTCCAA	ACCTGGAGAG	CTTCGTAAGG	GCTGTCAAGA	ACTTAGAAAA	TGCATCAGGT	7080
ATTGAGGCAA	TTCTTCGTAA	TCTCCAACCA	TGTCTGCCCT	CTGCCACGGC	CGCACCCTCT	7140
CGACATCCAA	TCATCATCAA	GGCAGGTGAC	TGGCAAGAAT	TCCGGGAAAA	ACTGACGTTC	7200
TATCTGGTTA	CCCTTGAGCA	AGCGCAGGAA	CAACAGTACG	TAGAGGGCGG	TGGAGGCTCC	7260
CCGGGTGAAC	CGTCTGGTCC	AATCTCTACT	ATCAACCCGT	CTCCTCCGTC	TAAAGAATCT	7320
САТАААТСТС	CAAACATGGC	TCTGCAGCTG	GCAGGCTGCT	TGAGCCAACT	CCATAGCGGC	7380
		CCTGCAGGCC				7440
		GGACGTCGCC				7500
		TGCCCTGCAG				7560
		AGGAGGGGTC				7620
		ACGCCACCTT				7680
CCTGCCAGCT	CCCTGCCCCA	GAGCTTCCTG	CTCAAGTCTT	TAGAGCAAGT	GAGGAAGATC	7740
		CCAGGAGAAG				7800
GAGGAGCTGG	TGCTGCTCGG	ACACTCTCTG	GGCATCCCCT	GGGCTCCCCT	GAGCTCCTGC	7860
CCCAGCCAGG	CCACGTACTC	CATGGCTAAC	TGCTCTATAA	TGATCGATGA	AATTATACAT	7920
CACTTAAAGA	GACCACCTGC	ACCTTTGCTG	GACCCGAACA	ACCTCAATGA	CGAAGACGTC	7980
TCTATCCTGA	TGGATCGAAA	CCTTCGACTT	CCAAACCTGG	AGAGCTTCGT	AAGGGCTGTC	8040
AAGAACTTAG	AAAATGCATC	AGGTATTGAG	GCAATTCTTC	GTAATCTCCA	ACCATGTCTG	8100

CCCTCTGCCA	CGGCCGCACC	CTCTCGACAT	CCAATCATCA	TCAAGGCAGG	TGACTGGCAA	8160
GAATTCCGGG	AAAAACTGAC	GTTCTATCTG	GTTACCCTTG	AGCAAGCGCA	GGAACAACAG	8220
TACGTAGAGG	GCGGTGGAGG	CTCCCCGGGT	GAACCGTCTG	GTCCAATCTC	TACTATCAAC	8280
CCGTCTCCTC	CGTCTAAAGA	ATCTCATAAA	TCTCCAAACA	TGGCTCTGGC	AGGCTGCTTG	8340
AGCCAACTCC	ATAGCGGCCT	TTTCCTCTAC	CAGGGGCTCC	TGCAGGCCCT	GGAAGGGATA	8400
TCCCCGAGT	TGGGTCCCAC	CTTGGACACA	CTGCAGCTGG	ACGTCGCCGA	CTTTGCCACC	8460
ACCATCTGGC	AGCAGATGGA	AGAACTGGGA	ATGGCCCCTG	CCCTGCAGCC	CACCCAGGGT	8520
GCCATGCCGG	CCTTCGCCTC	TGCTTTCCAG	CGCCGGGCAG	GAGGGGTCCT	GGTTGCTAGC	8580
CATCTGCAGA	GCTTCCTGGA	GGTGTCGTAC	CGCGTTCTAC	GCCACCTTGC	GCAGCCCGAC	8640
ATGGCTACAC	CATTAGGCCC	TGCCAGCTCC	CTGCCCCAGA	GCTTCCTGCT	CAAGTCTTTA	8700
GAGCAAGTGA	GGAAGATCCA	GGGCGATGGC	GCAGCGCTCC	AGGAGAAGCT	GTGTGCCACC	8760
TACAAGCTGT	GCCACCCCGA	GGAGCTGGTG	CTGCTCGGAC	ACTCTCTGGG	CATCCCCTGG	8820
GCTCCCCTGA	GCTCCTGCCC	CAGCCAGGCC	CTGCAGACGT	ACTCCATGGC	TAACTGCTCT	8880
ATAATGATCG	ATGAAATTAT	ACATCACTTA	AAGAGACCAC	CTGCACCTTT	GCTGGACCCG	8940
AACAACCTCA	ATGACGAAGA	CGTCTCTATC	CTGATGGATC	GAAACCTTCG	ACTTCCAAAC	9000
CTGGAGAGCT	TCGTAAGGGC	TGTCAAGAAC	TTAGAAAATG	CATCAGGTAT	TGAGGCAATT	9060
CTTCGTAATC	TCCAACCATG	TCTGCCCTCT	GCCACGGCCG	CACCCTCTCG	ACATCCAATC	9120
ATCATCAAGG	CAGGTGACTG	GCAAGAATTC	CGGGAAAAAC	TGACGTTCTA	TCTGGTTACC	9180
CTTGAGCAAG	CGCAGGAACA	ACAGTACGTA	GAGGGCGGTG	GAGGCTCCCC	GGGTGAACCG	9240
TCTGGTCCAA	TCTCTACTAT	CAACCCGTCT	CCTCCGTCTA	AAGAATCTCA	TAAATCTCCA	9300
AACATGGCTG	AACTGGGAAT	GGCCCCTGCC	CTGCAGCCCA	CCCAGGGTGC	CATGCCGGCC	9360
TTCGCCTCTG	CTTTCCAGCG	CCGGGCAGGA	GGGGTCCTGG	TTGCTAGCCA	TCTGCAGAGC	9420
TTCCTGGAGG	TGTCGTACCG	CGTTCTACGC	CACCTTGCGC	AGCCCGACAT	GGCTACACCA	9480
TTAGGCCCTG	CCAGCTCCCT	GCCCCAGAGC	TTCCTGCTCA	AGTCTTTAGA	GCAAGTGAGG	9540
AAGATCCAGG	GCGATGGCGC	AGCGCTCCAG	GAGAAGCTGT	GTGCCACCTA	CAAGCTGTGC	9600
CACCCGAGG	AGCTGGTGCT	GCTCGGACAC	TCTCTGGGCA	TCCCCTGGGC	TCCCCTGAGC	9660
TCCTGCCCCA	GCCAGGCCCT	GCAGCTGGCA	GGCTGCTTGA	GCCAACTCCA	TAGCGGCCTT	9720
TTCCTCTACC	AGGGGCTCCT	GCAGGCCCTG	GAAGGGATAT	CCCCGAGTT	GGGTCCCACC	9780

TTGGACACAC	TGCAGCTGGA	CGTCGCCGAC	TTTGCCACCA	CCATCTGGCA	GCAGATGGAA	9840	
ACGTACTCCA	TGGCTAACTG	CTCTATAATG	ATCGATGAAA	TTATACATCA	CTTAAAGAGA	9900	
CCACCTGCAC	CTTTGCTGGA	CCCGAACAAC	CTCAATGACG	AAGACGTCTC	TATCCTGATG	9960	
GATCGAAACC	TTCGACTTCC	AAACCTGGAG	AGCTTCGTAA	GGGCTGTCAA	GAACTTAGAA	10020	
AATGCATCAG	GTATTGAGGC	AATTCTTCGT	AATCTCCAAC	CATGTCTGCC	CTCTGCCACG	10080	
GCCGCACCCT	CTCGACATCC	AATCATCATC	AAGGCAGGTG	ACTGGCAAGA	ATTCCGGGAA	10140	
AAACTGACGT	TCTATCTGGT	TACCCTTGAG	CAAGCGCAGG	AACAACAGTA	CGTAGAGGGC	10200	
GGTGGAGGCT	CCCCGGGTGA	ACCGTCTGGT	CCAATCTCTA	CTATCAACCC	GTCTCCTCCG	10260	
TCTAAAGAAT	CTCATAAATC	TCCAAACATG	GCTGGAATGG	CCCCTGCCCT	GCAGCCCACC	10320	
CAGGGTGCCA	TGCCGGCCTT	CGCCTCTGCT	TTCCAGCGCC	GGGCAGGAGG	GGTCCTGGTT	10380	
GCTAGCCATC	TGCAGAGCTT	CCTGGAGGTG	TCGTACCGCG	TTCTACGCCA	CCTTGCGCAG	10440	
CCCGACATGG	CTACACCATT	AGGCCCTGCC	AGCTCCCTGC	CCCAGAGCTT	CCTGCTCAAG	10500	
TCTTTAGAGC	AAGTGAGGAA	GATCCAGGGC	GATGGCGCAG	CGCTCCAGGA	GAAGCTGTGT	10560	
GCCACCTACA	AGCTGTGCCA	CCCCGAGGAG	CTGGTGCTGC	TCGGACACTC	TCTGGGCATC	10620	
CCCTGGGCTC	CCCTGAGCTC	CTGCCCCAGC	CAGGCCCTGC	AGCTGGCAGG	CTGCTTGAGC	10680	
CAACTCCATA	GCGGCCTTTT	CCTCTACCAG	GGGCTCCTGC	AGGCCCTGGA	AGGGATATCC	10740	
CCCGAGTTGG	GTCCCACCTT	GGACACACTG	CAGCTGGACG	TCGCCGACTT	TGCCACCACC	10800	
ATCTGGCAGC	AGATGGAAGA	ACTGACGTAC	TCCATGGCTA	ACTGCTCTAT	AATGATCGAT	10860	
GAAATTATAC	ATCACTTAAA	GAGACCACCT	GCACCTTTGC	TGGACCCGAA	CAACCTCAAT	10920	
GACGAAGACG	TCTCTATCCT	GATGGATCGA	AACCTTCGAC	TTCCAAACCT	GGAGAGCTTC	10980	
GTAAGGGCTG	TCAAGAACTT	AGAAAATGCA	TCAGGTATTG	AGGCAATTCT	TCGTAATCTC	11040	
CAACCATGTC	TGCCCTCTGC	CACGGCCGCA	CCCTCTCGAC	ATCCAATCAT	CATCAAGGCA	11100	
GGTGACTGGC	AAGAATTCCG	GGAAAAACTG	ACGTTCTATC	TGGTTACCCT	TGAGCAAGCG	11160	
CAGGAACAAC	AGTACGTAGA	GGGCGGTGGA	GGCTCCCCGG	GTGAACCGTC	TGGTCCAATC	11220	
TCTACTATCA	ACCCGTCTCC	TCCGTCTAAA	GAATCTCATA	AATCTCCAAA	CATGGCTAGC	11280	
TTCCTGGAGG	TGTCGTACCG	CGTTCTACGC	CACCTTGCGC	AGCCCGACAT	GGCTACACCA	11340	
TTAGGCCCTG	CCAGCTCCCT	GCCCCAGAGC	TTCCTGCTCA	AGTCTTTAGA	GCAAGTGAGG	11400	
AAGATCCAGG	GCGATGGCGC	AGCGCTCCAG	GAGAAGCTGT	GTGCCACCTA	CAAGCTGTGC	11460	
CACCCGAGG	AGCTGGTGCT	GCTCGGACAC	TCTCTGGGCA	TCCCCTGGGC	TCCCCTGAGC	11520	

TCCTGCCCCA	GCCAGGCCCT	GCAGCTGGCA	GGCTGCTTGA	GCCAACTCCA	TAGCGGCCTT	11580
TTCCTCTACC	AGGGGCTCCT	GCAGGCCCTG	GAAGGGATAT	CCCCGAGTT	GGGTCCCACC	11640
TTGGACACAC	TGCAGCTGGA	CGTCGCCGAC	TTTGCCACCA	CCATCTGGCA	GCAGATGGAA	11700
GAACTGGGAA	TGGCCCCTGC	CCTGCAGCCC	ACCCAGGGTG	CCATGCCGGC	CTTCGCCTCT	11760
GCTTTCCAGC	GCCGGGCAGG	AGGGGTCCTG	GTTGCTAGCC	ATCTGCAG		11808

# (2) INFORMATION FOR SEQ ID NO:260:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 975 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:260:

ATGGCTAACT GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGATCGAAAC	120
CTTCGACTTC CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT CTCCAAACAT	GGCTCAGAGC	TTCCTGCTCA	AGTCTTTAGA	GCAAGTGAGG	480
AAGATCCAGG GCGATGGCGC	AGCGCTCCAG	GAGAAGCTGT	GTGCCACCTA	CAAGCTGTGC	540
CACCCGAGG AGCTGGTGCT	GCTCGGACAC	TCTCTGGGCA	TCCCCTGGGC	TCCCCTGAGC	600
TCCTGCCCCA GCCAGGCCCT	GCAGCTGGCA	GGCTGCTTGA	GCCAACTCCA	TAGCGGCCTT	660
TTCCTCTACC AGGGGCTCCT					720
					0
TTGGACACAC TGCAGCTGGA	CGTCGCCGAC	TTTGCCACCA	CCATCTGGCA	GCAGATGGAA	780
GAACTGGGAA TGGCCCCTGC	CCTGCAGCCC	ACCCAGGGTG	CCATGCCGGC	CTTCGCCTCT	840
GCTTTCCAGC GCCGGGCAGG	AGGGGTCCTG	GTTGCTAGCC	ATCTGCAGAG	CTTCCTGGAG	900

GTGTCGTACC	GCGTTCTACG	CCACCTTGCG	CAGCCCGACA	TGGCTACACC	ATTAGGCCCT	960
GCCAGCTCCC	TGCCC					975

# (2) INFORMATION FOR SEQ ID NO:261:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 975 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown

# (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:261:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGATCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTCAGAGC	TTCCTGCTCA	AGTCTTTAGA	GCAAGTGAGG	480
AAGATCCAGG	GCGATGGCGC	AGCGCTCCAG	GAGAAGCTGT	GTGCCACCTA	CAAGCTGTGC	540
CACCCGAGG	AGCTGGTGCT	GCTCGGACAC	TCTCTGGGCA	TCCCCTGGGC	TCCCCTGAGC	600
TCCTGCCCCA	GCCAGGCCCT	GCAGCTGGCA	GGCTGCTTGA	GCCAACTCCA	TAGCGGCCTT	660
TTCCTCTACC	AGGGGCTCCT	GCAGGCCCTG	GAAGGGATAT	CCCCGAGTT	GGGTCCCACC	720
TTGGACACAC	TGCAGCTGGA	CGTCGCCGAC	TTTGCCACCA	CCATCTGGCA	GCAGATGGAA	780
GAACTGGGAA	TGGCCCCTGC	CCTGCAGCCC	ACCCAGGGTG	CCATGCCGGC	CTTCGCCTCT	840
GCTTTCCAGC	GCCGGGCAGG	AGGGGTCCTG	GTTGCTAGCC	ATCTGCAGAG	CTTCCTGGAG	900
GTGTCGTACC	GCGTTCTACG	CCACCTTGCG	CAGCCCGACA	TGGCTACACC	ATTAGGCCCT	960
GCCAGCTCCC	TGCCC					975

# (2) INFORMATION FOR SEQ ID NO:262:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 975 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:262:

ATGGCTAACT GCTCTATAAT GATCGATGAA ATTATACATC ACTTAAAGAG ACCACCTGCA	60
CCTTTGCTGG ACCCGAACAA CCTCAATGAC GAAGACGTCT CTATCCTGAT GGATCGAAAC	120
CTTCGACTTC CAAACCTGGA GAGCTTCGTA AGGGCTGTCA AGAACTTAGA AAATGCATCA	180
GGTATTGAGG CAATTCTTCG TAATCTCCAA CCATGTCTGC CCTCTGCCAC GGCCGCACCC	240
TCTCGACATC CAATCATCAT CAAGGCAGGT GACTGGCAAG AATTCCGGGA AAAACTGACG	300
TTCTATCTGG TTACCCTTGA GCAAGCGCAG GAACAACAGT ACGTAGAGGG CGGTGGAGGC	360
TCCCCGGGTG AACCGTCTGG TCCAATCTCT ACTATCAACC CGTCTCCTCC GTCTAAAGAA	420
TCTCATAAAT CTCCAAACAT GGCTGAGCAA GTGAGGAAGA TCCAGGGCGA TGGCGCAGCG	480
CTCCAGGAGA AGCTGTGTGC CACCTACAAG CTGTGCCACC CCGAGGAGCT GGTGCTGCTC	540
GGACACTCTC TGGGCATCCC CTGGGCTCCC CTGAGCTCCT GCCCCAGCCA GGCCCTGCAG	600
CTGGCAGGCT GCTTGAGCCA ACTCCATAGC GGCCTTTTCC TCTACCAGGG GCTCCTGCAG	660
GCCCTGGAAG GGATATCCCC CGAGTTGGGT CCCACCTTGG ACACACTGCA GCTGGACGTC	720
GCCGACTTTG CCACCACCAT CTGGCAGCAG ATGGAAGAAC TGGGAATGGC CCCTGCCCTG	780
CAGCCCACCC AGGGTGCCAT GCCGGCCTTC GCCTCTGCTT TCCAGCGCCG GGCAGGAGGG	840
GTCCTGGTTG CTAGCCATCT GCAGAGCTTC CTGGAGGTGT CGTACCGCGT TCTACGCCAC	900
CTTGCGCAGC CCGACATGGC TACACCATTA GGCCCTGCCA GCTCCCTGCC CCAGAGCTTC	960
CTGCTCAAGT CTTTA	975

# (2) INFORMATION FOR SEQ ID NO:263:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 975 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: other nucleic acid

# (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:263:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGATCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTCTGCTC	GGACACTCTC	TGGGCATCCC	CTGGGCTCCC	480
CTGAGCTCCT	GCCCCAGCCA	GGCCCTGCAG	CTGGCAGGCT	GCTTGAGCCA	ACTCCATAGC	540
GGCCTTTTCC	TCTACCAGGG	GCTCCTGCAG	GCCCTGGAAG	GGATATCCCC	CGAGTTGGGT	600
CCCACCTTGG	ACACACTGCA	GCTGGACGTC	GCCGACTTTG	CCACCACCAT	CTGGCAGCAG	660
ATGGAAGAAC	TGGGAATGGC	CCCTGCCCTG	CAGCCCACCC	AGGGTGCCAT	GCCGGCCTTC	720
GCCTCTGCTT	TCCAGCGCCG	GGCAGGAGGG	GTCCTGGTTG	CTAGCCATCT	GCAGAGCTTC	780
CTGGAGGTGT	CGTACCGCGT	TCTACGCCAC	CTTGCGCAGC	CCGACATGGC	TACACCATTA	840
GGCCCTGCCA	GCTCCCTGCC	CCAGAGCTTC	CTGCTCAAGT	CTTTAGAGCA	AGTGAGGAAG	900
ATCCAGGGCG	ATGGCGCAGC	GCTCCAGGAG	AAGCTGTGTG	CCACCTACAA	GCTGTGCCAC	960
CCCGAGGAGC	TGGTG					975

# (2) INFORMATION FOR SEQ ID NO:264:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 975 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:264:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGATCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTCCCCTG	AGCTCCTGCC	CCAGCCAGGC	CCTGCAGCTG	480
GCAGGCTGCT	TGAGCCAACT	CCATAGCGGC	CTTTTCCTCT	ACCAGGGGCT	CCTGCAGGCC	540
CTGGAAGGGA	TATCCCCGA	GTTGGGTCCC	ACCTTGGACA	CACTGCAGCT	GGACGTCGCC	600
GACTTTGCCA	CCACCATCTG	GCAGCAGATG	GAAGAACTGG	GAATGGCCCC	TGCCCTGCAG	660
CCCACCCAGG	GTGCCATGCC	GGCCTTCGCC	TCTGCTTTCC	AGCGCCGGGC	AGGAGGGGTC	720
CTGGTTGCTA	GCCATCTGCA	GAGCTTCCTG	GAGGTGTCGT	ACCGCGTTCT	ACGCCACCTT	780
GCGCAGCCCG	ACATGGCTAC	ACCATTAGGC	CCTGCCAGCT	CCCTGCCCCA	GAGCTTCCTG	840
CTCAAGTCTT	TAGAGCAAGT	GAGGAAGATC	CAGGGCGATG	GCGCAGCGCT	CCAGGAGAAG	900
CTGTGTGCCA	CCTACAAGCT	GTGCCACCCC	GAGGAGCTGG	TGCTGCTCGG	ACACTCTCTG	960
GGCATCCCCT	GGGCT					975

#### (2) INFORMATION FOR SEQ ID NO:265:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 975 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:265:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60	
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGATCGAAAC	120	
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180	
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240	

TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTCAGGCC	CTGCAGCTGG	CAGGCTGCTT	GAGCCAACTC	480
CATAGCGGCC	TTTTCCTCTA	CCAGGGGCTC	CTGCAGGCCC	TGGAAGGGAT	ATCCCCCGAG	540
TTGGGTCCCA	CCTTGGACAC	ACTGCAGCTG	GACGTCGCCG	ACTTTGCCAC	CACCATCTGG	600
CAGCAGATGG	AAGAACTGGG	AATGGCCCCT	GCCCTGCAGC	CCACCCAGGG	TGCCATGCCG	660
GCCTTCGCCT	CTGCTTTCCA	GCGCCGGGCA	GGAGGGGTCC	TGGTTGCTAG	CCATCTGCAG	720
AGCTTCCTGG	AGGTGTCGTA	CCGCGTTCTA	CGCCACCTTG	CGCAGCCCGA	CATGGCTACA	780
CCATTAGGCC	CTGCCAGCTC	CCTGCCCCAG	AGCTTCCTGC	TCAAGTCTTT	AGAGCAAGTG	840
AGGAAGATCC	AGGGCGATGG	CGCAGCGCTC	CAGGAGAAGC	TGTGTGCCAC	CTACAAGCTG	900
TGCCACCCCG	AGGAGCTGGT	GCTGCTCGGA	CACTCTCTGG	GCATCCCCTG	GGCTCCCCTG	960
AGCTCCTGCC	CCAGC					975

# (2) INFORMATION FOR SEQ ID NO:266:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 975 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:266:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGATCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420

TCTCATAAAT	CTCCAAACAT	GGCTCTGCAG	CTGGCAGGCT	GCTTGAGCCA	ACTCCATAGC	480
GGCCTTTTCC	TCTACCAGGG	GCTCCTGCAG	GCCCTGGAAG	GGATATCCCC	CGAGTTGGGT	540
CCCACCTTGG	ACACACTGCA	GCTGGACGTC	GCCGACTTTG	CCACCACCAT	CTGGCAGCAG	600
ATGGAAGAAC	TGGGAATGGC	CCCTGCCCTG	CAGCCCACCC	AGGGTGCCAT	GCCGGCCTTC	660
GCCTCTGCTT	TCCAGCGCCG	GGCAGGAGGG	GTCCTGGTTG	CTAGCCATCT	GCAGAGCTTC	720
CTGGAGGTGT	CGTACCGCGT	TCTACGCCAC	CTTGCGCAGC	CCGACATGGC	TACACCATTA	780
GGCCCTGCCA	GCTCCCTGCC	CCAGAGCTTC	CTGCTCAAGT	CTTTAGAGCA	AGTGAGGAAG	840
ATCCAGGGCG	ATGGCGCAGC	GCTCCAGGAG	AAGCTGTGTG	CCACCTACAA	GCTGTGCCAC	900
CCCGAGGAGC	TGGTGCTGCT	CGGACACTCT	CTGGGCATCC	CCTGGGCTCC	CCTGAGCTCC	960
TGCCCCAGCC	AGGCC					975

#### (2) INFORMATION FOR SEQ ID NO:267:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 975 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown

#### (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:267:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGATCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTCTGGCA	GGCTGCTTGA	GCCAACTCCA	TAGCGGCCTT	480
TTCCTCTACC	AGGGGCTCCT	GCAGGCCCTG	GAAGGGATAT	CCCCGAGTT	GGGTCCCACC	540
TTGGACACAC	TGCAGCTGGA	CGTCGCCGAC	TTTGCCACCA	CCATCTGGCA	GCAGATGGAA	600
GAACTGGGAA	TGGCCCCTGC	CCTGCAGCCC	ACCCAGGGTG	CCATGCCGGC	CTTCGCCTCT	660

GCTTTCCAGC	GCCGGGCAGG	AGGGGTCCTG	GTTGCTAGCC	ATCTGCAGAG	CTTCCTGGAG	720
GTGTCGTACC	GCGTTCTACG	CCACCTTGCG	CAGCCCGACA	TGGCTACACC	ATTAGGCCCT	780
GCCAGCTCCC	TGCCCCAGAG	CTTCCTGCTC	AAGTCTTTAG	AGCAAGTGAG	GAAGATCCAG	840
GGCGATGGCG	CAGCGCTCCA	GGAGAAGCTG	TGTGCCACCT	ACAAGCTGTG	CCACCCGAG	900
GAGCTGGTGC	TGCTCGGACA	CTCTCTGGGC	ATCCCCTGGG	CTCCCCTGAG	CTCCTGCCCC	960
AGCCAGGCCC	TGCAG					975

# (2) INFORMATION FOR SEQ ID NO:268:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 975 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:268:

ATGGCTAACT GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGATCGAAAC	120
CTTCGACTTC CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT CTCCAAACAT	GGCTGAACTG	GGAATGGCCC	CTGCCCTGCA	GCCCACCCAG	480
GGTGCCATGC CGGCCTTCGC	CTCTGCTTTC	CAGCGCCGGG	CAGGAGGGGT	CCTGGTTGCT	540
AGCCATCTGC AGAGCTTCCT	GGAGGTGTCG	TACCGCGTTC	TACGCCACCT	TGCGCAGCCC	600
GACATGGCTA CACCATTAGG	CCCTGCCAGC	TCCCTGCCCC	AGAGCTTCCT	GCTCAAGTCT	660
TTAGAGCAAG TGAGGAAGAT	CCAGGGCGAT	GGCGCAGCGC	TCCAGGAGAA	GCTGTGTGCC	720
ACCTACAAGC TGTGCCACCC	CGAGGAGCTG	GTGCTGCTCG	GACACTCTCT	GGGCATCCCC	780
TGGGCTCCCC TGAGCTCCTG	CCCCAGCCAG	GCCCTGCAGC	TGGCAGGCTG	CTTGAGCCAA	840

CTCCATAGCG	GCCTTTTCCT	CTACCAGGGG	CTCCTGCAGG	CCCTGGAAGG	GATATCCCCC	900
GAGTTGGGTC	CCACCTTGGA	CACACTGCAG	CTGGACGTCG	CCGACTTTGC	CACCACCATC	960
TGGCAGCAGA	TGGAA					975

# (2) INFORMATION FOR SEQ ID NO:269:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 975 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown

# (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:269:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGATCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTGGAATG	GCCCTGCCC	TGCAGCCCAC	CCAGGGTGCC	480
ATGCCGGCCT	TCGCCTCTGC	TTTCCAGCGC	CGGGCAGGAG	GGGTCCTGGT	TGCTAGCCAT	540
CTGCAGAGCT	TCCTGGAGGT	GTCGTACCGC	GTTCTACGCC	ACCTTGCGCA	GCCCGACATG	600
GCTACACCAT	TAGGCCCTGC	CAGCTCCCTG	CCCCAGAGCT	TCCTGCTCAA	GTCTTTAGAG	660
CAAGTGAGGA	AGATCCAGGG	CGATGGCGCA	GCGCTCCAGG	AGAAGCTGTG	TGCCACCTAC	720
AAGCTGTGCC	ACCCCGAGGA	GCTGGTGCTG	CTCGGACACT	CTCTGGGCAT	CCCCTGGGCT	780
CCCCTGAGCT	CCTGCCCCAG	CCAGGCCCTG	CAGCTGGCAG	GCTGCTTGAG	CCAACTCCAT	840
AGCGGCCTTT	TCCTCTACCA	GGGGCTCCTG	CAGGCCCTGG	AAGGGATATC	CCCCGAGTTG	900
GGTCCCACCT	TGGACACACT	GCAGCTGGAC	GTCGCCGACT	TTGCCACCAC	CATCTGGCAG	960
CAGATGGAAG	AACTG					975

# (2) INFORMATION FOR SEQ ID NO:270:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 975 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:270:

ATGGCTAACT	GCTCTATAAT	GATCGATGAA	ATTATACATC	ACTTAAAGAG	ACCACCTGCA	60
CCTTTGCTGG	ACCCGAACAA	CCTCAATGAC	GAAGACGTCT	CTATCCTGAT	GGATCGAAAC	120
CTTCGACTTC	CAAACCTGGA	GAGCTTCGTA	AGGGCTGTCA	AGAACTTAGA	AAATGCATCA	180
GGTATTGAGG	CAATTCTTCG	TAATCTCCAA	CCATGTCTGC	CCTCTGCCAC	GGCCGCACCC	240
TCTCGACATC	CAATCATCAT	CAAGGCAGGT	GACTGGCAAG	AATTCCGGGA	AAAACTGACG	300
TTCTATCTGG	TTACCCTTGA	GCAAGCGCAG	GAACAACAGT	ACGTAGAGGG	CGGTGGAGGC	360
TCCCCGGGTG	AACCGTCTGG	TCCAATCTCT	ACTATCAACC	CGTCTCCTCC	GTCTAAAGAA	420
TCTCATAAAT	CTCCAAACAT	GGCTAGCTTC	CTGGAGGTGT	CGTACCGCGT	TCTACGCCAC	480
CTTGCGCAGC	CCGACATGGC	TACACCATTA	GGCCCTGCCA	GCTCCCTGCC	CCAGAGCTTC	540
CTGCTCAAGT	CTTTAGAGCA	AGTGAGGAAG	ATCCAGGGCG	ATGGCGCAGC	GCTCCAGGAG	600
AAGCTGTGTG	CCACCTACAA	GCTGTGCCAC	CCCGAGGAGC	TGGTGCTGCT	CGGACACTCT	660
CTGGGCATCC	CCTGGGCTCC	CCTGAGCTCC	TGCCCCAGCC	AGGCCCTGCA	GCTGGCAGGC	720
TGCTTGAGCC	AACTCCATAG	CGGCCTTTTC	CTCTACCAGG	GGCTCCTGCA	GGCCCTGGAA	780
GGGATATCCC	CCGAGTTGGG	TCCCACCTTG	GACACACTGC	AGCTGGACGT	CGCCGACTTT	840
GCCACCACCA	TCTGGCAGCA	GATGGAAGAA	CTGGGAATGG	CCCCTGCCCT	GCAGCCCACC	900
CAGGGTGCCA	TGCCGGCCTT	CGCCTCTGCT	TTCCAGCGCC	GGGCAGGAGG	GGTCCTGGTT	960
GCTAGCCATC	TGCAG					975

#### (2) INFORMATION FOR SEQ ID NO:271:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 325 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown

#### (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:271:

- Met Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys

  1 10 15
- Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp 20 25 30
- Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser 35 40 45
- Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala 50 55 60
- Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro 65 70 75 80
- Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg 85 90 95
- Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln 100 105 110
- Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro 115 120 125
- Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser 130 135 140
- Pro Asn Met Ala Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu 145 150 155 160
- Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala 165 170 175
- Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu 180 185 190
- Leu Val Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser 195 200 205
- Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu 210 215 220
- His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly 225 230 235 240
- Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val 245 250 255
- Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met 260 265 270

Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser 275 280 285

Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln 290 295 300

Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro 305 310 315 320

Asp Met Ala Thr Pro

#### (2) INFORMATION FOR SEQ ID NO:272:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 325 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:272:

Met Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys 1 5 10 15

Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp 20 25 30

Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser 35 40 45

Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala 50 55 60

Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro 65 70 75 80

Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg 85 90 95

Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln
100 105 110

Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro 115 120 125

Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser 130 135 140

Pro Asn Met Ala Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu 145 150 155 160 Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala 165 170 175

Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu 180 185 190

Leu Val Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser 195 200 205

Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu 210 225 220

His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly 225 230 235 240

Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val 245 250 255

Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met 260 265 270

Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser 275 280 285

Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln 290 295 300

Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro 305 310 315 320

Asp Met Ala Thr Pro 325

#### (2) INFORMATION FOR SEQ ID NO:273:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 325 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:273:

Met Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys 1  $\phantom{\bigg|}$  5  $\phantom{\bigg|}$  10  $\phantom{\bigg|}$  15

Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp 20 25 30

Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser 35 40 45

Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro 120 Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn Met Ala Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile 150 Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys 165 170 Leu Cys His Pro Glu Glu Leu Val Leu Gly His Ser Leu Gly Ile 185 Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala 200 Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp 230 Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln 245 250 Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala 265 Met Pro Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu 280 Val Ala Ser His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu 295 Arg His Leu Ala Gln Pro Asp Met Ala Thr Pro Leu Gly Pro Ala Ser 315 Ser Leu Pro Gln Ser 325

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 325 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:274:
- Met Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys 1 5 10 15
- Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp 20 25 30
- Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser 35 40 45
- Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala 50 55 60
- Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro 65 70 75 80
- Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg 85 90 95
- Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln
  100 105 110
- Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro 115 120 125
- Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser 130 135 140
- Pro Asn Met Ala Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala 145 150 155 160
- Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu 165 170 175
- Leu Val Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser 180 185 190
- Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu 195 200 205
- His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly 210 215 220
- Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val225230235240

Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met 245 250 255

Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser 260 265 270

Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln 275 280 285

Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro 290 295 300

Asp Met Ala Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe 305 310 315 320

Leu Leu Lys Ser Leu 325

#### (2) INFORMATION FOR SEQ ID NO:275:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 325 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:275:

Met Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp 20 25 30

Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser 35 40 45

Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala 50 55 60

Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro 65 70 75 80

Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg 85 90 95

Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln
100 105 110

Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro

115 120 125

Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser 130 135 140

Pro Asn Met Ala Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro 145 150 155 160

Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser 165 170 175

Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu 180 185 190

Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu 195 200 205

Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu 210 215 220

Gly Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe 225 230 235 240

Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His 245 250 255

Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala 260 265 270

Gln Pro Asp Met Ala Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln 275 280 285

Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp 290 295 300

Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His 305 310 315 320

Pro Glu Glu Leu Val 325

# (2) INFORMATION FOR SEQ ID NO:276:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 325 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:276:

Met 1	Ala	Asn	Суѕ	Ser 5	Ile	Met	Ile	Asp	Glu 10	Ile	Ile	His	His	Leu 15	Lys
Arg	Pro	Pro	Ala 20	Pro	Leu	Leu	Asp	Pro 25	Asn	Asn	Leu	Asn	Asp 30	Glu	Asp
Val	Ser	Ile 35	Leu	Met	Asp	Arg	Asn 40	Leu	Arg	Leu	Pro	Asn 45	Leu	Glu	Ser
Phe	Val 50	Arg	Ala	Val	Lys	Asn 55	Leu	Glu	Asn	Ala	Ser 60	Gly	Ile	Glu	Ala
Ile 65	Leu	Arg	Asn	Leu	Gln 70	Pro	Cys	Leu	Pro	Ser 75	Ala	Thr	Ala	Ala	Pro 80
Ser	Arg	His	Pro	Ile 85	Ile	Ile	Lys	Ala	Gly 90	Asp	Trp	Gln	Glu	Phe 95	Arg
Glu	Lys	Leu	Thr 100	Phe	Tyr	Leu	Val	Thr 105	Leu	Glu	Gln	Ala	Gln 110	Glu	Gln
Gln	Tyr	Val 115	Glu	Gly	Gly	Gly	Gly 120	Ser	Pro	Gly	Glu	Pro 125	Ser	Gly	Pro
Ile	Ser 130	Thr	Ile	Asn	Pro	Ser 135	Pro	Pro	Ser	Lys	Glu 140	Ser	His	Lys	Ser
Pro 145	Asn	Met	Ala	Pro	Leu 150	Ser	Ser	Cys	Pro	Ser 155	Gln	Ala	Leu	Gln	Leu 160
Ala	Gly	Cys	Leu	Ser 165	Gln	Leu	His	Ser	Gly 170	Leu	Phe	Leu	Tyr	Gln 175	Gly
Leu	Leu	Gln	Ala 180	Leu	Glu	Gly	Ile	Ser 185	Pro	Glu	Leu	Gly	Pro 190	Thr	Leu
Asp	Thr	Leu 195	Gln	Leu	Asp	Val	Ala 200	Asp	Phe	Ala	Thr	Thr 205	Ile	Trp	Gln
Gln	Met 210	Glu	Glu	Leu	Gly	Met 215	Ala	Pro	Ala	Leu	Gln 220	Pro	Thr	Gln	Gly
Ala 225	Met	Pro	Ala	Phe	Ala 230	Ser	Ala	Phe	Gln	Arg 235	Arg	Ala	Gly	Gly	Val 240
Leu	Val	Ala	Ser	His 245	Leu	Gln	Ser	Phe	Leu 250	Glu	Val	Ser	Tyr	Arg 255	Val
Leu	Arg	His	Leu 260	Ala	Gln	Pro	Asp	Met 265	Ala	Thr	Pro	Leu	Gly 270	Pro	Ala
Ser	Ser	Leu 275	Pro	Gln	Ser	Phe	Leu 280	Leu	Lys	Ser	Leu	Glu 285	Gln	Val	Arg
Lys	Ile 290	Gln	Gly	Asp	Gly	Ala 295	Ala	Leu	Gln	Glu	Lys 300	Leu	Cys	Ala	Thr

Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly His Ser Leu 305 310 315 320

Gly Ile Pro Trp Ala 325

### (2) INFORMATION FOR SEQ ID NO:277:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 325 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:277:
- Met Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys 1 5 10 15
- Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp 20 25 30
- Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser 35 40 45
- Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala 50 55 60
- Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro 65 70 75 80
- Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg 85 90 95
- Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln
  100 105 110
- Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro 115 120 125
- Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser 130 135 140
- Pro Asn Met Ala Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu 145 150 155 160
- His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly 165 170 175
- Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val 180 185 190

Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met 195 200 205

Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser 210 215 220

Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln 225 230 235 240

Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro 245 250 255

Asp Met Ala Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe 260 265 270

Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala 275 280 285

Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu 290 295 300

Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu 305 310 315 320

Ser Ser Cys Pro Ser 325

### (2) INFORMATION FOR SEQ ID NO:278:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 325 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:278:

Met Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys 1 5 10 15

Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp 20 25 30

Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser 35 40 45

Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala 50 55 60

Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro 65 70 75 80

Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln 105 Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro 120 Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn Met Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser 150 Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser 165 170 Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp 180 185 Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro 200 Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe 210 215 220 Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe 230 Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Asp Met 250 Ala Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu 260 265 Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu 280 Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu 290 295 300 Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser 305 310 315 Cys Pro Ser Gln Ala

# (2) INFORMATION FOR SEQ ID NO:279:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 325 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:279:

- Met Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys 1 5 10 15
- Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp
  20 25 30
- Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser 35 40 45
- Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala 50 60
- Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro 65 70 75 80
- Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg 85 90 95
- Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln
  100 105 110
- Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro 115 120 125
- Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser 130 135 140
- Pro Asn Met Ala Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu 145 150 155 160
- Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu 165 170 175
- Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala 180 185 190
- Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu 195 200 205
- Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg 210 215 220
- Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu 225 230 235 240
- Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Asp Met Ala Thr 245 250 255
- Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Ser 260 265 270

Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu 275 280 285

Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu 290 295 300

Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro 305 310 315 320

Ser Gln Ala Leu Gln 325

# (2) INFORMATION FOR SEQ ID NO:280:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 325 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:280:

Met Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys 1 5 10 15

Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp 20 25 30

Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser 35 40 45

Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala 50 55 60

Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro 65 70 75 80

Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg 85 90 95

Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln 100 105 110

Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro 115 120 125

Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser 130 135 140

Pro Asn Met Ala Glu Leu Gly Met Ala Pro Ala Leu Gln Pro Thr Gln 145 150 155 160

Gly	Ala	Met	Pro	Ala	Phe	Ala	Ser	Ala	Phe	Gln	Arg	Arg	Ala	Gly	Gly
				165					170					175	

Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg 180 185 190

Val Leu Arg His Leu Ala Gln Pro Asp Met Ala Thr Pro Leu Gly Pro 195 200 205

Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val 210 215 220

Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala 225 230 235 240

Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly His Ser 245 250 255

Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu 260 265 270

Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr 275 280 285

Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro 290 295 300

Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile 305 310 315 320

Trp Gln Gln Met Glu 325

### (2) INFORMATION FOR SEQ ID NO:281:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 325 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:281:

Met Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys 1 5 10 15

Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp 20 25 30

Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser 35 40 45

Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro 120 Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser Pro Asn Met Ala Gly Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala 150 Met Pro Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu 165 170 Val Ala Ser His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu 180 185 Arg His Leu Ala Gln Pro Asp Met Ala Thr Pro Leu Gly Pro Ala Ser 200 Ser Leu Pro Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr 230 Lys Leu Cys His Pro Glu Glu Leu Val Leu Gly His Ser Leu Gly 245 250 Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu 260 265 Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly 275 280 Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu 295 300 Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln 305 310 315 Gln Met Glu Glu Leu 325

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 325 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:282:
- Met Ala Asn Cys Ser Ile Met Ile Asp Glu Ile Ile His His Leu Lys 1 5 10 15
- Arg Pro Pro Ala Pro Leu Leu Asp Pro Asn Asn Leu Asn Asp Glu Asp 20 25 30
- Val Ser Ile Leu Met Asp Arg Asn Leu Arg Leu Pro Asn Leu Glu Ser 35 40 45
- Phe Val Arg Ala Val Lys Asn Leu Glu Asn Ala Ser Gly Ile Glu Ala 50 55 60
- Ile Leu Arg Asn Leu Gln Pro Cys Leu Pro Ser Ala Thr Ala Ala Pro 65 70 75 80
- Ser Arg His Pro Ile Ile Ile Lys Ala Gly Asp Trp Gln Glu Phe Arg 85 90 95
- Glu Lys Leu Thr Phe Tyr Leu Val Thr Leu Glu Gln Ala Gln Glu Gln 100 105 110
- Gln Tyr Val Glu Gly Gly Gly Ser Pro Gly Glu Pro Ser Gly Pro 115 120 125
- Ile Ser Thr Ile Asn Pro Ser Pro Pro Ser Lys Glu Ser His Lys Ser 130 135 140
- Pro Asn Met Ala Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His 145 150 155 160
- Leu Ala Gln Pro Asp Met Ala Thr Pro Leu Gly Pro Ala Ser Ser Leu 165 170 175
- Pro Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln 180 185 190
- Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu 195 200 205
- Cys His Pro Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro 210 215 220
- Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly

225 230 235 240

Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu 245 250 255

Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr 260 265 270

Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met 275 280 285

Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met 290 295 300

Pro Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val 305 310 315 320

Ala Ser His Leu Gln 325

### (2) INFORMATION FOR SEQ ID NO:283:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 153 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
  - (A) NAME/KEY: Modified-site
  - (B) LOCATION: 7
- (D) OTHER INFORMATION: /note= "Xaa at position 7 is Ser or Ala;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 112
- (D) OTHER INFORMATION: /note= "Xaa at position 112 is deleted or Leu, Ala, Val, Ile, Pro, Phe, Trp, or Met;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 113
- (D) OTHER INFORMATION: /note= "Xaa at position 113 is deleted or Pro, Phe, Ala, Val, Leu, Ile, Trp, or Met;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 114
- (D) OTHER INFORMATION: /note= "Xaa at position 114 is deleted or Pro, Phe, Ala, Val, Leu, Ile, Trp, or Met;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site

- (B) LOCATION: 115
- (D) OTHER INFORMATION: /note= "Xaa at position 115 is deleted or Gln, Gly, Ser, Thr, Tyr, or Asn;"
  - (ix) FEATURE:
    - (A) NAME/KEY: Modified-site
    - (B) LOCATION: 151
- (D) OTHER INFORMATION: /note= "Xaa at position 151 is Ser or Ala;"
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:283:

Ser Pro Ala Pro Pro Ala Xaa Asp Leu Arg Val Leu Ser Lys Leu Leu 1 5 10 15

Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val 20 25 30

His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu 35 40 45

Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu 50 55 60

Gly Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln 65 70 75 80

Leu Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln 85 90 95

Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Xaa 100 105 110 .

Xaa Xaa Xaa Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe 115 120 125

Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu 130 135 140

Val Gly Gly Ser Thr Leu Xaa Val Arg 145 150

- (2) INFORMATION FOR SEQ ID NO:284:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 162 amino acids
    - (B) TYPE: amino acid
    - (C) STRANDEDNESS: unknown
    - (D) TOPOLOGY: unknown
  - (ii) MOLECULE TYPE: peptide
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:284:

Met Ala Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile Phe Leu 1 5 10 15

Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met Leu Val 20 25 30

Gly Gly Ser Thr Leu Ala Val Arg Glu Phe Gly Gly Asn Met Ala Ser 35 40 45

Pro Ala Pro Pro Ala Ala Asp Leu Arg Val Leu Ser Lys Leu Leu Arg 50 55 60

Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu Val His 65 70 75 80

Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser Leu Gly 85 90 95

Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile Leu Gly
100 105 110

Ala Val Thr Leu Leu Glu Gly Val Met Ala Ala Arg Gly Gln Leu 115 120 125

Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly Gln Val 130 135 140

Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln Leu Pro 145 150 155 160

Pro Gln

## (2) INFORMATION FOR SEQ ID NO:285:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 162 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:285:

Met Ala Gly Pro Thr Cys Leu Ser Ser Leu Leu Gly Gln Leu Ser Gly
1 10 15

Gln Val Arg Leu Leu Gly Ala Leu Gln Ser Leu Leu Gly Thr Gln
20 25 30

Leu Pro Pro Gln Gly Arg Thr Thr Ala His Lys Asp Pro Asn Ala Ile 35 40 45 Phe Leu Ser Phe Gln His Leu Leu Arg Gly Lys Val Arg Phe Leu Met 50 55 60

Leu Val Gly Gly Ser Thr Leu Ala Val Arg Glu Phe Gly Gly Asn Met 70 75 80

Ala Ser Pro Ala Pro Pro Ala Ala Asp Leu Arg Val Leu Ser Lys Leu 85 90 95

Leu Arg Asp Ser His Val Leu His Ser Arg Leu Ser Gln Cys Pro Glu 100 105 110

Val His Pro Leu Pro Thr Pro Val Leu Leu Pro Ala Val Asp Phe Ser 115 120 125

Leu Gly Glu Trp Lys Thr Gln Met Glu Glu Thr Lys Ala Gln Asp Ile 130 135 140

Leu Gly Ala Val Thr Leu Leu Leu Glu Gly Val Met Ala Ala Arg Gly 145 150 155 160

Gln Leu

### (2) INFORMATION FOR SEQ ID NO:286:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 180 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:286:

Ala Thr Gly Gly Cys Thr Gly Gly Ala Cys Cys Cys Ala Cys Thr Thr  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Gly Cys Cys Thr Cys Thr Cys Ala Thr Cys Cys Cys Thr Cys Cys Thr 20 25 30

Gly Gly Gly Cys Ala Gly Cys Thr Thr Thr Cys Thr Gly Gly Ala 35 40 45

Cys Ala Gly Gly Thr Cys Cys Gly Thr Cys Thr Cys Cys Thr Cys Cys 50 55 60

Thr Thr Gly Gly Gly Cys Cys Cys Thr Gly Cys Ala Gly Ala Gly 65 70 75 80

Cys	Cys	Thr	Cys	Cys 85	Thr	Thr	Gly	Gly	Ala 90	Ala	Cys	Cys	Cys	Ala 95	Gly
Cys	Thr	Thr	Cys 100	Cys	Thr	Cys	Cys	Ala 105	Cys	Ala	Gly	Gly	Gly 110	Cys	Ala
Gly	Gly	Ala 115	Cys	Cys	Ala	Cys	Ala 120	Gly	Cys	Thr	Cys	Ala 125	Суѕ	Ala	Ala
Gly	Gly 130	Ala	Thr	Cys	Cys	Cys 135	Ala	Ala	Thr	Gly	Cys 140	Cys	Ala	Thr	Су
Thr 145	Thr	Cys	Cys	Thr	Gly 150	Ala	Gly	Cys	Thr	Thr 155	Cys	Cys	Ala	Ala	Cy:
Ala	Cys	Cys	Thr	Gly 165	Cys	Thr	Cys	Cys	Gly 170	Ala	Gly	Gly	Ala	Ala 175	Ala
Gly	Gly	Thr	Gly												

180

# (2) INFORMATION FOR SEQ ID NO:287:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 486 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:287:

ATGGCTGGCA	GGACCACAGC	TCACAAGGAT	CCCAATGCCA	TCTTCCTGAG	CTTCCAACAC	60
CTGCTCCGAG	GAAAGGTGCG	TTTCCTGATG	CTTGTAGGAG	GGTCCACCCT	CGCCGTCAGG	120
GAATTCGGCG	GCAACATGGC	GTCTCCGGCG	CCGCCTGCTG	CTGACCTCCG	AGTCCTCAGT	180
AAACTGCTTC	GTGACTCCCA	TGTCCTTCAC	AGCAGACTGA	GCCAGTGCCC	AGAGGTTCAC	240
CCTTTGCCTA	CACCTGTCCT	GCTGCCTGCT	GTGGACTTTA	GCTTGGGAGA	ATGGAAAACC	300
CAGATGGAGG	AGACCAAGGC	ACAGGACATT	CTGGGAGCAG	TGACCCTTCT	GCTGGAGGGA	360
GTGATGGCAG	CACGGGGACA	ACTGGGACCC	ACTTGCCTCT	CATCCCTCCT	GGGGCAGCTT	420
TCTGGACAGG	TCCGTCTCCT	CCTTGGGGCC	CTGCAGAGCC	TCCTTGGAAC	CCAGCTTCCT	480
CCACAG						486

(2) INFORMATION FOR SEQ ID NO:288:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 531 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:288:

CAGAGCTTCC	TGCTCAAGTC	TTTAGAGCAA	GTGAGGAAGA	TCCAGGGCGA	TGGCGCAGCG	60
CTCCAGGAGA	AGCTGTGTGC	CACCTACAAG	CTGTGCCACC	CCGAGGAGCT	GGTGCTGCTC	120
GGACACTCTC	TGGGCATCCC	CTGGGCTCCC	CTGAGCTCCT	GCCCCAGCCA	GGCCCTGCAG	180
CTGGCAGGCT	GCTTGAGCCA	ACTCCATAGC	GGCCTTTTCC	TCTACCAGGG	GCTCCTGCAG	240
GCCCTGGAAG	GGATATCCCC	CGAGTTGGGT	CCCACCTTGG	ACACACTGCA	GCTGGACGTC	300
GCCGACTTTG	CCACCACCAT	CTGGCAGCAG	ATGGAAGAAC	TGGGAATGGC	CCCTGCCCTG	360
CAGCCCACCC	AGGGTGCCAT	GCCGGCCTTC	GCCTCTGCTT	TCCAGCGCCG	GGCAGGAGGG	420
GTCCTGGTTG	CTAGCCATCT	GCAGAGCTTC	CTGGAGGTGT	CGTACCGCGT	TCTACGCCAC	480
CTTGCGCAGC	CCGACATGGC	TACACCATTA	GGCCCTGCCA	GCTCCCTGCC	С	531

- (2) INFORMATION FOR SEQ ID NO:289:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 531 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: unknown
    - (D) TOPOLOGY: unknown
  - (ii) MOLECULE TYPE: other nucleic acid
    - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:289:

GAACTGGGAA	TGGCCCCTGC	CCTGCAGCCC	ACCCAGGGTG	CCATGCCGGC	CTTCGCCTCT	60
GCTTTCCAGC	GCCGGGCAGG	AGGGGTCCTG	GTTGCTAGCC	ATCTGCAGAG	CTTCCTGGAG	120
GTGTCGTACC	GCGTTCTACG	CCACCTTGCG	CAGCCCGACA	TGGCTACACC	ATTAGGCCCT	180
GCCAGCTCCC	TGCCCCAGAG	CTTCCTGCTC	AAGTCTTTAG	AGCAAGTGAG	GAAGATCCAG	240
GGCGATGGCG	CAGCGCTCCA	GGAGAAGCTG	TGTGCCACCT	ACAAGCTGTG	CCACCCGAG	300

GAGCTGGTGC	TGCTCGGACA	CTCTCTGGGC	ATCCCCTGGG	CTCCCCTGAG	CTCCTGCCCC	360
AGCCAGGCCC	TGCAGCTGGC	AGGCTGCTTG	AGCCAACTCC	ATAGCGGCCT	TTTCCTCTAC	420
CAGGGGCTCC	TGCAGGCCCT	GGAAGGGATA	TCCCCGAGT	TGGGTCCCAC	CTTGGACACA	480
CTGCAGCTGG	ACGTCGCCGA	CTTTGCCACC	ACCATCTGGC	AGCAGATGGA	А	531

- (2) INFORMATION FOR SEQ ID NO:290:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 531 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: unknown
    - (D) TOPOLOGY: unknown
  - (ii) MOLECULE TYPE: other nucleic acid
    - (A) DESCRIPTION: /desc = "synthetic"
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:290:

GGAATGGCCC	CTGCCCTGCA	GCCCACCCAG	GGTGCCATGC	CGGCCTTCGC	CTCTGCTTTC	60
CAGCGCCGGG	CAGGAGGGGT	CCTGGTTGCT	AGCCATCTGC	AGAGCTTCCT	GGAGGTGTCG	120
TACCGCGTTC	TACGCCACCT	TGCGCAGCCC	GACATGGCTA	CACCATTAGG	CCCTGCCAGC	180
TCCCTGCCCC	AGAGCTTCCT	GCTCAAGTCT	TTAGAGCAAG	TGAGGAAGAT	CCAGGGCGAT	240
GGCGCAGCGC	TCCAGGAGAA	GCTGTGTGCC	ACCTACAAGC	TGTGCCACCC	CGAGGAGCTG	300
GTGCTGCTCG	GACACTCTCT	GGGCATCCCC	TGGGCTCCCC	TGAGCTCCTG	CCCCAGCCAG	360
GCCCTGCAGC	TGGCAGGCTG	CTTGAGCCAA	CTCCATAGCG	GCCTTTTCCT	CTACCAGGGG	420
CTCCTGCAGG	CCCTGGAAGG	GATATCCCCC	GAGTTGGGTC	CCACCTTGGA	CACACTGCAG	480
CTGGACGTCG	CCGACTTTGC	CACCACCATC	TGGCAGCAGA	TGGAAGAACT	G	531

- (2) INFORMATION FOR SEQ ID NO:291:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 531 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: unknown
    - (D) TOPOLOGY: unknown
  - (ii) MOLECULE TYPE: other nucleic acid
    - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:291:

TTCCTGCTCA	AGTCTTTAGA	GCAAGTGAGG	AAGATCCAGG	GCGATGGCGC	AGCGCTCCAG	60
GAGAAGCTGT	GTGCCACCTA	CAAGCTGTGC	CACCCGAGG	AGCTGGTGCT	GCTCGGACAC	120
TCTCTGGGCA	TCCCCTGGGC	TCCCCTGAGC	TCCTGCCCCA	GCCAGGCCCT	GCAGCTGGCA	180
GGCTGCTTGA	GCCAACTCCA	TAGCGGCCTT	TTCCTCTACC	AGGGGCTCCT	GCAGGCCCTG	240
GAAGGGATAT	CCCCGAGTT	GGGTCCCACC	TTGGACACAC	TGCAGCTGGA	CGTCGCCGAC	300
TTTGCCACCA	CCATCTGGCA	GCAGATGGAA	GAACTGGGAA	TGGCCCCTGC	CCTGCAGCCC	360
ACCCAGGGTG	CCATGCCGGC	CTTCGCCTCT	GCTTTCCAGC	GCCGGGCAGG	AGGGGTCCTG	420
GTTGCTAGCC	ATCTGCAGAG	CTTCCTGGAG	GTGTCGTACC	GCGTTCTACG	CCACCTTGCG	480
CAGCCCGACA	TGGCTACACC	ATTAGGCCCT	GCCAGCTCCC	TGCCCCAGAG	С	531

### (2) INFORMATION FOR SEQ ID NO:292:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 531 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown

# (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:292:

AGCTTCCTGG	AGGTGTCGTA	CCGCGTTCTA	CGCCACCTTG	CGCAGCCCGA	CATGGCTACA	60
CCATTAGGCC	CTGCCAGCTC	CCTGCCCCAG	AGCTTCCTGC	TCAAGTCTTT	AGAGCAAGTG	120
AGGAAGATCC	AGGGCGATGG	CGCAGCGCTC	CAGGAGAAGC	TGTGTGCCAC	CTACAAGCTG	180
TGCCACCCCG	AGGAGCTGGT	GCTGCTCGGA	CACTCTCTGG	GCATCCCCTG	GGCTCCCCTG	240
AGCTCCTGCC	CCAGCCAGGC	CCTGCAGCTG	GCAGGCTGCT	TGAGCCAACT	CCATAGCGGC	300
CTTTTCCTCT	ACCAGGGGCT	CCTGCAGGCC	CTGGAAGGGA	TATCCCCGA	GTTGGGTCCC	360
ACCTTGGACA	CACTGCAGCT	GGACGTCGCC	GACTTTGCCA	CCACCATCTG	GCAGCAGATG	420
GAAGAACTGG	GAATGGCCCC	TGCCCTGCAG	CCCACCCAGG	GTGCCATGCC	GGCCTTCGCC	480
TCTGCTTTCC	AGCGCCGGGC	AGGAGGGGTC	CTGGTTGCTA	GCCATCTGCA	G	531

# (2) INFORMATION FOR SEQ ID NO:293:

# (i) SEQUENCE CHARACTERISTICS:

(A)	LENGTH: 531 base pairs
(B)	TYPE: nucleic acid
(C)	STRANDEDNESS: unknown
(D)	TOPOLOGY: unknown

(ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:293:

AGCTTCCTGG	AGGTGTCGTA	CCGCGTTCTA	CGCCACCTTG	CGCAGCCCGA	CATGGCTACA	60
CCATTAGGCC	CTGCCAGCTC	CCTGCCCCAG	AGCTTCCTGC	TCAAGTCTTT	AGAGCAAGTG	120
AGGAAGATCC	AGGGCGATGG	CGCAGCGCTC	CAGGAGAAGC	TGTGTGCCAC	CTACAAGCTG	180
TGCCACCCCG	AGGAGCTGGT	GCTGCTCGGA	CACTCTCTGG	GCATCCCCTG	GGCTCCCCTG	240
AGCTCCTGCC	CCAGCCAGGC	CCTGCAGCTG	GCAGGCTGCT	TGAGCCAACT	CCATAGCGGC	300
СТТТТССТСТ	ACCAGGGGCT	CCTGCAGGCC	CTGGAAGGGA	TATCCCCGA	GTTGGGTCCC	360
ACCTTGGACA	CACTGCAGCT	GGACGTCGCC	GACTTTGCCA	CCACCATCTG	GCAGCAGATG	420
GAAGAACTGG	GAATGGCCCC	TGCCCTGCAG	CCCACCCAGG	GTGCCATGCC	GGCCTTCGCC	480
TCTGCTTTCC	AGCGCCGGGC	AGGAGGGTC	CTGGTTGCTA	GCCATCTGCA	G	531

# (2) INFORMATION FOR SEQ ID NO:294:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 531 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:294:

TTAGGCCCTG	CCAGCTCCCT	GCCCCAGAGC	TTCCTGCTCA	AGTCTTTAGA	GCAAGTGAGG	60
AAGATCCAGG	GCGATGGCGC	AGCGCTCCAG	GAGAAGCTGT	GTGCCACCTA	CAAGCTGTGC	120
CACCCGAGG	AGCTGGTGCT	GCTCGGACAC	TCTCTGGGCA	TCCCCTGGGC	TCCCCTGAGC	180
TCCTGCCCCA	GCCAGGCCCT	GCAGCTGGCA	GGCTGCTTGA	GCCAACTCCA	TAGCGGCCTT	240
TTCCTCTACC	AGGGGCTCCT	GCAGGCCCTG	GAAGGGATAT	CCCCGAGTT	GGGTCCCACC	300

TTGGACACAC	TGCAGCTGGA	CGTCGCCGAC	TTTGCCACCA	CCATCTGGCA	GCAGATGGAA	360
GAACTGGGAA	TGGCCCCTGC	CCTGCAGCCC	ACCCAGGGTG	CCATGCCGGC	CTTCGCCTCT	420
GCTTTCCAGC	GCCGGGCAGG	AGGGGTCCTG	GTTGCTAGCC	ATCTGCAGAG	CTTCCTGGAG	480
GTGTCGTACC	GCGTTCTACG	CCACCTTGCG	CAGCCCGACA	TGGCTACACC	A	531

# (2) INFORMATION FOR SEQ ID NO:295:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 531 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:295:

CTGCTCGGAC	ACTCTCTGGG	CATCCCCTGG	GCTCCCCTGA	GCTCCTGCCC	CAGCCAGGCC	60
CTGCAGCTGG	CAGGCTGCTT	GAGCCAACTC	CATAGCGGCC	TTTTCCTCTA	CCAGGGGCTC	. 120
CTGCAGGCCC	TGGAAGGGAT	ATCCCCCGAG	TTGGGTCCCA	CCTTGGACAC	ACTGCAGCTG	180
GACGTCGCCG	ACTTTGCCAC	CACCATCTGG	CAGCAGATGG	AAGAACTGGG	AATGGCCCCT	240
GCCCTGCAGC	CCACCCAGGG	TGCCATGCCG	GCCTTCGCCT	CTGCTTTCCA	GCGCCGGGCA	300
GGAGGGGTCC	TGGTTGCTAG	CCATCTGCAG	AGCTTCCTGG	AGGTGTCGTA	CCGCGTTCTA	360
CGCCACCTTG	CGCAGCCCGA	CATGGCTACA	CCATTAGGCC	CTGCCAGCTC	CCTGCCCCAG	420
AGCTTCCTGC	TCAAGTCTTT	AGAGCAAGTG	AGGAAGATCC	AGGGCGATGG	CGCAGCGCTC	480
CAGGAGAAGC	TGTGTGCCAC	CTACAAGCTG	TGCCACCCCG	AGGAGCTGGT	G	531

# (2) INFORMATION FOR SEQ ID NO:296:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 531 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: other nucleic acid
  - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:296:

CCCCTGAGCT	CCTGCCCCAG	CCAGGCCCTG	CAGCTGGCAG	GCTGCTTGAG	CCAACTCCAT	60
AGCGGCCTTT	TCCTCTACCA	GGGGCTCCTG	CAGGCCCTGG	AAGGGATATC	CCCCGAGTTG	120
GGTCCCACCT	TGGACACACT	GCAGCTGGAC	GTCGCCGACT	TTGCCACCAC	CATCTGGCAG	180
CAGATGGAAG	AACTGGGAAT	GGCCCCTGCC	CTGCAGCCCA	CCCAGGGTGC	CATGCCGGCC	240
TTCGCCTCTG	CTTTCCAGCG	CCGGGCAGGA	GGGGTCCTGG	TTGCTAGCCA	TCTGCAGAGC	300
TTCCTGGAGG	TGTCGTACCG	CGTTCTACGC	CACCTTGCGC	AGCCCGACAT	GGCTACACCA	360
TTAGGCCCTG	CCAGCTCCCT	GCCCCAGAGC	TTCCTGCTCA	AGTCTTTAGA	GCAAGTGAGG	420
AAGATCCAGG	GCGATGGCGC	AGCGCTCCAG	GAGAAGCTGT	GTGCCACCTA	CAAGCTGTGC	480
CACCCGAGG	AGCTGGTGCT	GCTCGGACAC	TCTCTGGGCA	TCCCCTGGGC	Т	531

### (2) INFORMATION FOR SEQ ID NO:297:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 531 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown

# (ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:297:

CAGGCCCTGC	AGCTGGCAGG	CTGCTTGAGC	CAACTCCATA	GCGGCCTTTT	CCTCTACCAG	60
GGGCTCCTGC	AGGCCCTGGA	AGGGATATCC	CCCGAGTTGG	GTCCCACCTT	GGACACACTG	120
CAGCTGGACG	TCGCCGACTT	TGCCACCACC	ATCTGGCAGC	AGATGGAAGA	ACTGGGAATG	180
GCCCCTGCCC	TGCAGCCCAC	CCAGGGTGCC	ATGCCGGCCT	TCGCCTCTGC	TTTCCAGCGC	240
CGGGCAGGAG	GGGTCCTGGT	TGCTAGCCAT	CTGCAGAGCT	TCCTGGAGGT	GTCGTACCGC	300
GTTCTACGCC	ACCTTGCGCA	GCCCGACATG	GCTACACCAT	TAGGCCCTGC	CAGCTCCCTG	360
CCCCAGAGCT	TCCTGCTCAA	GTCTTTAGAG	CAAGTGAGGA	AGATCCAGGG	CGATGGCGCA	420
GCGCTCCAGG	AGAAGCTGTG	TGCCACCTAC	AAGCTGTGCC	ACCCCGAGGA	GCTGGTGCTG	480
CTCGGACACT	CTCTGGGCAT	CCCCTGGGCT	CCCCTGAGCT	CCTGCCCCAG	С	531

## (2) INFORMATION FOR SEQ ID NO:298:

# (i) SEQUENCE CHARACTERISTICS:

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:298:	
CTGCAGCTGG CAGGCTGCTT GAGCCAACTC CATAGCGGCC TTTTCCTCTA	CCAGGGGCTC 60
CTGCAGGCCC TGGAAGGGAT ATCCCCCGAG TTGGGTCCCA CCTTGGACAC	ACTGCAGCTG 120
GACGTCGCCG ACTTTGCCAC CACCATCTGG CAGCAGATGG AAGAACTGGG	AATGGCCCCT 180
GCCCTGCAGC CCACCCAGGG TGCCATGCCG GCCTTCGCCT CTGCTTTCCA	GCGCCGGGCA 240
GGAGGGGTCC TGGTTGCTAG CCATCTGCAG AGCTTCCTGG AGGTGTCGTA	CCGCGTTCTA 300
CGCCACCTTG CGCAGCCCGA CATGGCTACA CCATTAGGCC CTGCCAGCTC	CCTGCCCCAG 360
AGCTTCCTGC TCAAGTCTTT AGAGCAAGTG AGGAAGATCC AGGGCGATGG	CGCAGCGCTC 420
CAGGAGAAGC TGTGTGCCAC CTACAAGCTG TGCCACCCCG AGGAGCTGGT	GCTGCTCGGA 480
CACTCTCTGG GCATCCCCTG GGCTCCCCTG AGCTCCTGCC CCAGCCAGGC	C 531
(2) INFORMATION FOR SEQ ID NO:299:	
<ul><li>(i) SEQUENCE CHARACTERISTICS:</li><li>(A) LENGTH: 531 base pairs</li><li>(B) TYPE: nucleic acid</li><li>(C) STRANDEDNESS: unknown</li><li>(D) TOPOLOGY: unknown</li></ul>	
<pre>(ii) MOLECULE TYPE: other nucleic acid     (A) DESCRIPTION: /desc = "synthetic"</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:299:	
CTGGCAGGCT GCTTGAGCCA ACTCCATAGC GGCCTTTTCC TCTACCAGGG	GCTCCTGCAG 60
GCCCTGGAAG GGATATCCCC CGAGTTGGGT CCCACCTTGG ACACACTGCA	GCTGGACGTC 120
GCCGACTTTG CCACCACCAT CTGGCAGCAG ATGGAAGAAC TGGGAATGGC	CCCTGCCCTG 180
CAGCCCACCC AGGGTGCCAT GCCGGCCTTC GCCTCTGCTT TCCAGCGCCG	GGCAGGAGGG 240
GTCCTGGTTG CTAGCCATCT GCAGAGCTTC CTGGAGGTGT CGTACCGCGT	TCTACGCCAC 300

(A) LENGTH: 531 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: unknown(D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: other nucleic acid

(A) DESCRIPTION: /desc = "synthetic"

CTTGCGCAGC	CCGACATGGC	TACACCATTA	GGCCCTGCCA	GCTCCCTGCC	CCAGAGCTTC	360
CTGCTCAAGT	CTTTAGAGCA	AGTGAGGAAG	ATCCAGGGCG	ATGGCGCAGC	GCTCCAGGAG	420
AAGCTGTGTG	CCACCTACAA	GCTGTGCCAC	CCCGAGGAGC	TGGTGCTGCT	CGGACACTCT	480
CTGGGCATCC	CCTGGGCTCC	CCTGAGCTCC	TGCCCCAGCC	AGGCCCTGCA	G	531

#### (2) INFORMATION FOR SEQ ID NO:300:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 177 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:300:
- Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly
  1 10 15
- Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys 20 25 30
- His Pro Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp  $35 \hspace{1.5cm} 40 \hspace{1.5cm} 45$
- Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys 50 55 60
- Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln 65 70 75 80
- Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu 85 90 95
- Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu 100 105 110
- Glu Leu Gly Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro 115 120 125
- Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala 130 135 140
- Ser His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His 150 155 160
- Leu Ala Gln Pro Asp Met Ala Thr Pro Leu Gly Pro Ala Ser Ser Leu 165 170 175

### (2) INFORMATION FOR SEQ ID NO:301:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 177 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:301:

Glu Leu Gly Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro 1 5 10 15

Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala 20 25 30

Ser His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His 35 40 45

Leu Ala Gln Pro Asp Met Ala Thr Pro Leu Gly Pro Ala Ser Ser Leu 50 55 60

Pro Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln 65 70 75 80

Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu 85 90 95

Cys His Pro Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro  $100 \hspace{1cm} 105 \hspace{1cm} 110$ 

Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly
115 120 125

Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu . 130 140

Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr 145 150 155 160

Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met 165 170 175

Glu

#### (2) INFORMATION FOR SEQ ID NO:302:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 177 amino acids

- (B) TYPE: amino acid
- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown

## (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:302:

Gly Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$ 

Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His 20 25 30

Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala 35 40 45

Gln Pro Asp Met Ala Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln 50 55 60

Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp 65 70 75 80

Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His
85 90 95

Pro Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala 100 105 110

Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu 115 120 125

Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala 130 135 140

Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln 145 150 155 160

Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu 165 170 175

Leu

### (2) INFORMATION FOR SEQ ID NO:303:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 177 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:303:

Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly
1 5 10 15

Ala Ala Leu Gl<br/>n Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro $20 \hspace{1.5cm} 25 \hspace{1.5cm} 30 \hspace{1.5cm}$ 

Glu Glu Leu Val Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro
35 40 45

Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser 50 55 60

Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu 65 70 75 80

Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu 85 90 95

Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu  $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110$ 

Gly Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe 115 120 125

Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His 130 135 140

Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala 145 150 155 160

Gln Pro Asp Met Ala Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln 165 170 175

Ser

#### (2) INFORMATION FOR SEQ ID NO:304:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 177 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:304:

Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro 1 5 10 15

Asp Met Ala Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe 20 25 30

Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala 35 40 45

Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu 50 55 60

Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu 65 70 75 80

Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln 85 90 95

Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu
100 105 110

Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp 115 120 125

Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly 130 135 140

Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala 145 150 155 160

Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu 165 170 175

Gln

### (2) INFORMATION FOR SEQ ID NO:305:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 177 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:305:

Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys 1 5 10 15

Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu 20 25 30

Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser 35 40 45

Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu 50 55 60

Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu 65 70 75 80

Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala 85 90 95

Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu 100 105 110

Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg 115 120 125

Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu 130 135 140

Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Asp Met Ala Thr 145 150 155 160

Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Ser 165 170 175

Leu

# (2) INFORMATION FOR SEQ ID NO: 306:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 177 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:306:

Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Ser Leu
1 5 10 15

Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys 20 25 30

Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu 35 40 45

Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser 50 60

Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu 65 70 75 80

Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu 85 90 95

Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala
100 105 110

Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu 115 120 125

Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg 130 135 140

Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu 145 150 155 160

Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Asp Met Ala Thr 165 170 175

Pro

#### (2) INFORMATION FOR SEQ ID NO:307:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 177 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

#### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:307:

Leu Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys
1 5 10 15

Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser 20 25 30

Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser 35 40 45

Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp 50 55 60

Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro 65 70 75 80

Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe 85 90 95

Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe 100 105 110

Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Asp Met 115 120 125

Ala Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu 130 135 140

Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu 165 170 175

Val

### (2) INFORMATION FOR SEQ ID NO:308:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 177 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:308:

Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala Gly Cys Leu 1 5 10 15

Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu Gln Ala 20 25 30

Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr Leu Gln 35 40 45

Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met Glu Glu 50 60

Leu Gly Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala Met Pro Ala 65 70 75 80

Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu Val Ala Ser 85 90 95

His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu Arg His Leu 100 105 110

Ala Gln Pro Asp Met Ala Thr Pro Leu Gly Pro Ala Ser Ser Leu Pro 115 120 125

Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile Gln Gly 130 135 140

Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys Leu Cys 145 150 155 160

His Pro Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile Pro Trp
165 170 175

Ala

# (2) INFORMATION FOR SEQ ID NO:309:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 177 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:309:

Gln Ala Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu  $1 \hspace{1.5cm} 5 \hspace{1.5cm} 10 \hspace{1.5cm} 15$ 

Phe Leu Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu 20 25 30

Leu Gly Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala 35 40 45

Thr Thr Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu 50 55

Gln Pro Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg 65 70 75 80

Arg Ala Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu 85 90 95

Val Ser Tyr Arg Val Leu Arg His Leu Ala Gln Pro Asp Met Ala Thr 100 105 110

Pro Leu Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Ser 115 120 125

Leu Glu Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu 130 135 140

Lys Leu Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu 145 150 155 160

Leu Gly His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro 165 170 175

Ser

### (2) INFORMATION FOR SEQ ID NO:310:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 177 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:310:
- Leu Gln Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu

  1 5 10 15
- Tyr Gln Gly Leu Leu Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly 20 25 30
- Pro Thr Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr 35 40 45
- Ile Trp Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro
  50 55 60
- Thr Gln Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala 65 70 75 80
- Gly Gly Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu Val Ser 85 90 95
- Tyr Arg Val Leu Arg His Leu Ala Gln Pro Asp Met Ala Thr Pro Leu
  100 105 110
- Gly Pro Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Ser Leu Glu 115 120 125
- Gln Val Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu 130 135 140
- Cys Ala Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly 145 150 155 160
- His Ser Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln
  165 170 175

Ala

#### (2) INFORMATION FOR SEO ID NO:311:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 177 amino acids
  - (B) TYPE: amino acid
  - (C) STRANDEDNESS: unknown
  - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide

### (xi) SEQUENCE DESCRIPTION: SEQ ID NO:311:

Leu Ala Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln
1 5 10 15

Gly Leu Leu Gl<br/>n Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Th<br/>r 20  $\phantom{-}25\phantom{+}30\phantom{+}$ 

Leu Asp Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp 35 40 45

Gln Gln Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro Thr Gln 50 60

Gly Ala Met Pro Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly 65 70 75 80

Val Leu Val Ala Ser His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg 85 90 95

Val Leu Arg His Leu Ala Gln Pro Asp Met Ala Thr Pro Leu Gly Pro 100 105 110

Ala Ser Ser Leu Pro Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val 115 120 125

Arg Lys Ile Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala 130 135 140

Thr Tyr Lys Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly His Ser 145 150 155 160

Leu Gly Ile Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu 165 170 175

Gln

# (2) INFORMATION FOR SEQ ID NO:312:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 177 amino acids
  - (B) TYPE: amino acid

- (C) STRANDEDNESS: unknown
- (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:312:
- His Leu Ala Gln Pro Asp Met Ala Thr Pro Leu Gly Pro Ala Ser Ser  $1 \hspace{1cm} 5 \hspace{1cm} 10 \hspace{1cm} 15$
- Leu Pro Gln Ser Phe Leu Leu Lys Ser Leu Glu Gln Val Arg Lys Ile 20 25 30
- Gln Gly Asp Gly Ala Ala Leu Gln Glu Lys Leu Cys Ala Thr Tyr Lys 35 40 45
- Leu Cys His Pro Glu Glu Leu Val Leu Leu Gly His Ser Leu Gly Ile 50 55 60
- Pro Trp Ala Pro Leu Ser Ser Cys Pro Ser Gln Ala Leu Gln Leu Ala 65 70 75 80
- Gly Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu 85 90 95
- Leu Gl<br/>n Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp<br/>  $100 \hspace{1.5cm} 105 \hspace{1.5cm} 110 \hspace{1.5cm}$
- Thr Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln 115 120 125
- Met Glu Glu Leu Gly Met Ala Pro Ala Leu Gln Pro Thr Gln Gly Ala 130 135 140
- Met Pro Ala Phe Ala Ser Ala Phe Gln Arg Arg Ala Gly Gly Val Leu 145 150 155 160
- Val Ala Ser His Leu Gln Ser Phe Leu Glu Val Ser Tyr Arg Val Leu
  165 170 175

Arg

- (2) INFORMATION FOR SEQ ID NO:313:
  - (i) SEQUENCE CHARACTERISTICS:
    - (A) LENGTH: 531 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: unknown
    - (D) TOPOLOGY: unknown
  - (ii) MOLECULE TYPE: other nucleic acid
    - (A) DESCRIPTION: /desc = "synthetic"

# (xi) SEQUENCE DESCRIPTION: SEQ ID NO:313:

CACCTTGCGC	AGCCCGACAT	GGCTACACCA	TTAGGCCCTG	CCAGCTCCCT	GCCCCAGAGC	60
TTCCTGCTCA	AGTCTTTAGA	GCAAGTGAGG	AAGATCCAGG	GCGATGGCGC	AGCGCTCCAG	120
GAGAAGCTGT	GTGCCACCTA	CAAGCTGTGC	CACCCGAGG	AGCTGGTGCT	GCTCGGACAC	180
TCTCTGGGCA	TCCCCTGGGC	TCCCCTGAGC	TCCTGCCCCA	GCCAGGCCCT	GCAGCTGGCA	240
GGCTGCTTGA	GCCAACTCCA	TAGCGGCCTT	TTCCTCTACC	AGGGGCTCCT	GCAGGCCCTG	300
GAAGGGATAT	CCCCGAGTT	GGGTCCCACC	TTGGACACAC	TGCAGCTGGA	CGTCGCCGAC	360
TTTGCCACCA	CCATCTGGCA	GCAGATGGAA	GAACTGGGAA	TGGCCCCTGC	CCTGCAGCCC	420
ACCCAGGGTG	CCATGCCGGC	CTTCGCCTCT	GCTTTCCAGC	GCCGGGCAGG	AGGGGTCCTG	480
GTTGCTAGCC	ATCTGCAGAG	CTTCCTGGAG	GTGTCGTACC	GCGTTCTACG	С	531

472